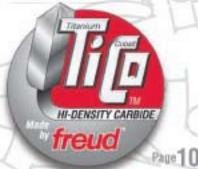




Freud's Innovation

TiCo™ Freud-Made **Hi-Density Carbide**



Hi-Density carbide blends to maximize life and material finish

Box Joint Cutter



Cuts flat square 1/4" & 3/8" grooves for perfect box joints

Dial-A-Width Dado Set



No shims required

Entry & Interior Door Router Bits



Create wood doors up to 2-1/4" thick with variable length tenons

Premier Fusion Technology



The new standard in general purpose saw blades



No sanding needed



THE

A manufacturer and marketer of superior carbide cutting tools for more than 50 years, Freud leads the industry in innovative manufacturing, precision products and quality service. Freud's

product selection includes diamondsharp saw blades, router bits, shaper cutters, planer knives and power tools.

Precision Products

 Freud engineers consistently develop revolutionary designs that set a new standard for high quality woodworking tools.

Quality Service

- Freud's Lifetime Guarantee on its bits, saw blades and cutters ensures that every Freud customer is satisfied.
- Nearly 40 Power Tool Service Stations across the United States are authorized to service Freud tools, ensuring you'll find help when you need it.

Awards & Recognition

Numerous trade magazines honor Freud products with recognition and awards for quality and innovation.

- American Woodworker magazine editors awarded the prestigious "Editors Choice" award to Freud's SD508 8" Super Dado.
- American Woodworker recognized five Freud products with a "Best Buy" seal: SD208 8" Pro Dado, JS102 Adjustable Fence Biscuit Joiner, JS100 Biscuit Joiner, FT2000E 3-1/4 HP Variable Speed Plunge Router, and FJ85 Heavy Duty Variable Speed Jigsaw.
- Handy Magazine awarded their annual "Innovation Award" to Freud for the Entry and Interior Door Router Bit Set.
- Popular Woodworking presented a "Readers' Choice Award" to Freud's SD208 8" Pro Dado.
- Wood Magazine editors selected the SD508 8" Super Dado as winner of the "Editors' Choice" award for excellence.
- Workbench named Freud's Dial-A-Width Dado Set, the SD608, as one of their "Top 10 Innovative Tools of the Year."

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

Freud is one of the few manufacturers of woodworking tools in the world that produces its own MicroGrain Carbide with Titanium, called TiCo™, a combination of Titanium and Cobalt. Freud develops different types of carbide for each application to maximize the cutting life and performance of the tool.

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

2



Freud's Key Manufacturing Facilities

Production of standard & special cutterheads



Production of Carbide



Production of Router Bits



Production of Saw Blades



3

4

CERTIFICATE



Certificato Nr 50 100 4138

Si attesta che / This is to certify that

IL SISTEMA QUALITÀ DI THE QUALITY SYSTEM OF

POZZO SPA



SEDE LEGALE:
VIA PADOVA 3 - Z.I. FELETTO
UMBERTO
I-33010 TAVAGNACCO (UD)

UNITA' PRODUTTIVE:

Z.I. VIA MARCUZZI
I-33034 FAGAGNA (UD)
S.S. 464 KM 43
I-33035 MARTIGNACCO (UD)
VIA UDINE NUCLEO PRADIS
I-33010 COLLOREDO DI MONTE ALBANO
(UD)

È CONFORME AI REQUISITI DELLA NORMA HAS BEEN FOUND TO CONFORM TO THE REQUIREMENTS OF

UNI EN ISO 9001:2000

Questo certificato è valido per il seguente campo di applicazione This certificate is valid for the following product or service range

Progettazione e produzione di lame circolari, teste portacoltelli, frese saldobrasate, punte e componenti in Metallo Duro (EA 17)

Design and manufacture of saw blades, cutter heads, brazed cutters, router bits and Hard Metal components
(EA 17)

Data/Date **2004-03-16**

Data di scadenza/Expiry date **2007-03-03**

Lead Auditor: Giuseppe Peloso

SINSERT ACCREMIAMENTO ORGANISMA DI CERTIFICAZIONE E EPIZIONE

SGQ N° 049/

Membro di MLA EA per gli schemi di accreditamento SGQ, SGA, PRD e PRS e di MLA IAF per gli schemi di accreditamento SGQ, SGA e PRD Signatory of EA MLA for the accreditation schemes GMS, EMS, Product and Personni and Life EMIA for the accreditation schemes GMS, EMS, Product and Personni

Per l'Organismo di Certificazione For the Certification Body

TÜV Italia S.r.I. Cinisello Balsamo (MI)

Nico Mastrorillo
Management Representative



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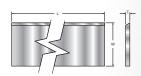












Freud's Lifetime Guarantee
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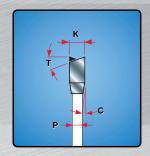
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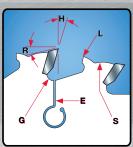


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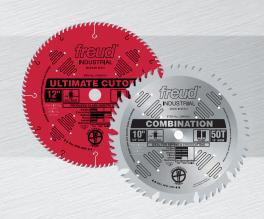


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Saw Blades: Technical Information

Glossary Of Terms

Anti-Kickback Limiter - (L)

The projection at the back of the tooth shoulder that limits the maximum tooth bite to the safe amount for the blade design.

ATB - Alternate Top Bevel

Tooth configuration where the top bevel alternates from right to left. Top bevel can range from 10 degrees to 40 degrees. Used for crosscutting hardwoods and softwoods and general-purpose cutting.

Bore

Arbor hole diameter

Brazing

The method used to attach the carbide tips to the blade body. Both the blade and the body are heated above the melting point of the brazing compound, which then flows, by capillary action into the joint, forming a bond between the parts.

COMB - Combination Grind

A mixture of ATB and Flat Top tooth design where each group of 5 teeth are led by a flat-topped raker tooth and followed by top bevel teeth alternating from left to right. Multi-purpose use.

Expansion Slots - (E)

Slots that are cut into the radius of the blade body controlling the expansion of the blade that may occur due to heat and centrifugal force.

FLAT - Flat Top Grind

Teeth are ground flat on top with 0 degrees of top bevel angle. Durable and long lasting, this blade is used for ripping or general purpose.

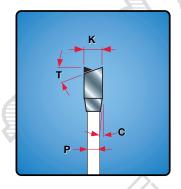
Gullet - (G)

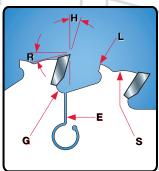
The area cut out in the blade body in front of each tooth. The gullet is designed for chip removal. The higher the ratio of teeth to blade size the smaller the chip size, and therefore the smaller the gullet.

Hook Angle - (H)

The angle that the face of the tooth makes with a line projecting radially from the center of the bore coming into contact with the tooth. Hook Angle ranges from 25 degrees to –7 degrees.

Equivalency Table For Industrial Saw Blade Sizes								
mm	Inches	mm	Inches					
150	6	235	9-1/2					
160	6-1/2	250	10					
170	7	300	12					
184	7-1/2	350	14					
200	8	400	16					
210	8-1/2	450	18					
220	9	500	20					





Kerf - (K)

The width of cut a saw blade makes under ideal conditions.

Plate - (P)

The thickness of the saw blade body.

Radial Side Clearance - (C)

The clearance angle on the side of the tooth.

Relief Angle - (R)

The angle made by the top of the tooth away from the cutting edge to a line tangent to the blade circumference.

Shoulder - (S)

The part of the blade body directly behind each tooth, which provides support for the tooth.

TCG - Triple Chip Grind

Tooth grind where one flat-topped tooth is followed by a trapezoidal tooth that is slightly higher. The higher tooth precuts the material narrower than the final kerf, helping to eliminate chipping in brittle materials, such as chipboard and laminates.

Tensioning Ring

The area in the blade that is pre-tensioned for maximum flatness over a broad temperature range, and operational speed. The tensioning ring can be seen on most blades as a faint ring approximately 3/4 the diameter of the blade.

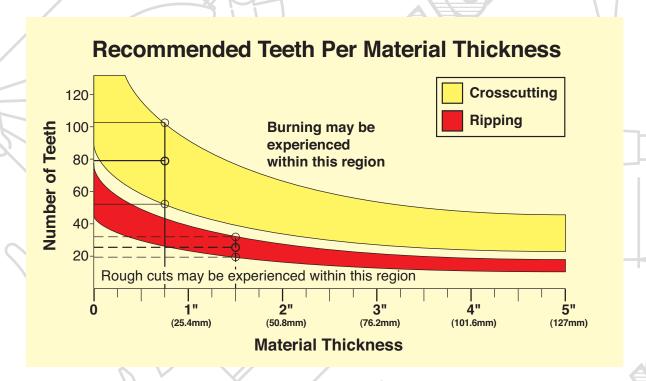
Top Bevel Angle - (T)

Angle that the top of the tooth makes from side to side.



Saw Blades: Technical Information

Valuable Information: The correct number of teeth is more important than the highest number of teeth. See chart below.



How To Use This Chart

- 1. Find the material thickness you will be cutting on the bottom scale.
- 2. Extend a vertical line up into the shaded area that matches the cut that you will be making (ripping or crosscutting).
- 3. Extend horizontal lines from the points that the vertical lines enter and exit the shaded area. These two lines represent the maximum and minimum number of teeth that should be used to make the cut.
- 4. Extend a horizontal line centered between the first two horizontal lines.
 THIS LINE REPRESENTS THE IDEAL NUMBER OF TEETH THAT SHOULD BE USED TO MAKE THE CUT.

EXAMPLE 1:

How many teeth should be used to crosscut a 3/4" thick board?

The heavy solid line is extended vertically into the light yellow crosscut region. The two light solid lines are extended horizontally from where the vertical line crosses the boundaries of the crosscut region. The heavy solid line is drawn horizontally, from the middle of the crosscut region. The chart shows that the blade to use to crosscut a 3/4" thick board should have between 56 and 104 teeth. Ideally, an 80-tooth blade should be used. You then select the blade closest to the ideal number of teeth.

EXAMPLE 2:

How many teeth should be used to rip a 1-1/2" thick board?

The heavy dashed line is extended vertically into the orange ripping region. The two light dashed lines are extended horizontally from where the vertical line crosses the boundaries of the ripping region. The heavy dashed line is drawn horizontally from the middle of the ripping region. The chart shows that the blade to use to rip a 1-1/2" thick board should have between 20 and 32 teeth. Ideally, a 26-tooth blade should be used. You then select a blade closest to the ideal number of teeth, which in this case would be a 24-tooth blade.

Freud—Leaders In Carbide Technology

About Freud's TiCo™ Hi-Density Carbide



TiCo™ Hi-Density Carbide is a new specially formulated, highly compact Titanium Cobalt Carbide engineered and manufactured by Freud to maximize performance on all Freud cutting tools.

Designed in Freud research and development laboratories, Freud's TiCo™ Hi-Density Carbide is scientifically developed using the following elements (as well as proprietary elements), to produce a supreme product:

- TiC=Titanium Carbide is known for its high strength, resistance, resistance to corrosion, and high melting/boiling points (heat resistance).
- Co=Cobalt also known for its density, hardness, and corrosion resistance; but it's also a very impact resistant element.
- W=Tungsten is an extremely dense and durable hard metal.

This new carbide is much smaller and more densely packed than other carbides on the market today, enabling the carbide teeth on Freud's blades, bits and cutters to last up to four times longer than standard products. Carbide size is extremely important when it comes to sharpness as well as the rate at which an edge wears. The larger the carbide grain, the faster an edge will wear. While standard carbides measure as large as 5 microns, and an advanced micrograin carbide can measure at 1 micron, Freud's TiCo™ Hi-Density Carbide is miniscule in comparison at .8 microns, with a laminate blend as small as .4 microns.

Freud Hi-Density Carbide Blends:

- Non-Ferrous Blend
- Ripping Blend
- General Purpose Blend
- Combination Blend
- Crosscutting Blend
- Panel Sizing Blend
- Laminated Panel Blend











TiCo™ Hi-Density Carbide Freud's premium quality TiCo™ Hi-Density Carbide allows for a sharper edge that gives a better finish with a dramatically longer cutting life. And since the grains are much smaller and more dense there is not as dramatic a loss to the cutting edge, so wear occurs much more slowly.





Standard Grade Carbide

Large grain carbide cannot be sharpened to such tight tolerances and as a result leave a rougher finish. Plus, the cutting edge wears much more quickly due to larger pieces of material eroding away with use. In fact, after just a few cuts with standard carbides, life and finish begin to suffer.

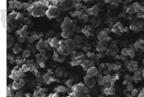
Using precise mixtures of cobalt (for impact resistance), titanium (for its anti-corrosive properties), tungsten (for its hardness), and a number of proprietary elements, Freud creates over 20 different blends of TiCo™ Hi-Density Carbide designed specifically for each cutting application to maximize blade life and material finish. Other carbide that is purchased "off-the-shelf" is usually non-specific and therefore will not maintain the proper tooth geometry or sharp edge. Freud-made carbides are designed to produce the best finish and life for their particular purpose.

Freud's industrial carbide blends range from highly impact-resistant for durability in ripping to extremely hard for maintaining a sharp edge in laminate cutting. For example a TiCo™ Hi-Density Ripping Carbide contains a moderate amount of cobalt allowing the carbide to withstand the impact demands when ripping, while a TiCo™ Hi-Density Laminate Carbide is a sub micrograin, dense carbide formulation that is half the size of Freud's other TiCo™ blends. At 0.4 microns, this carbide which contains a maximum amount of tungsten is the hardest of all which allows the edge to stay sharpest in laminate, melamine and solid surface cutting applications

Freud—Leaders In Carbide Technology

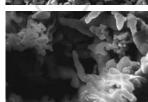
Tungsten Carbide (WC)

Tungsten Carbide is a combination of Tungsten and Carbon in powder form. This powder is created by a process of carburization in a Hydrogen furnace to create very fine particle sizes in the 2 to $0.2 \ \mu m$ range.



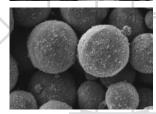
Cobalt (Co)

Cobalt is used as the binder that holds the different carbide powders together. It also provides the bonding surface for the brazing process. Freud uses only Cobalt from a special process which yields a certain grain structure required for a strong bond.



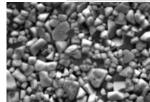
Atomized Carbide Powder

Atomized Carbide powder is a mixture of Tungsten Carbide, Cobalt and other carbides, which was mixed with wax and alcohol to form a homogeneous mixture then atomized in Nitrogen atmosphere. The spherical shape makes the mixture flow evenly into the presses yielding a higher quality carbide. The average size of the spheres are approximately 150 μ m.



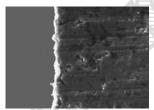
Crystalline Structure

This is an image of the crystalline structure of the carbide after sintering in a vacuum furnace. The light colored crystals are the Tungsten Carbide, notice how fine and even the grain sizes are one to another. The dark zones are the Cobalt binder.



Magnified Cutting Edge

The Tungsten Carbide crystals can be seen after grinding. Freud's finer grain mixture allows for a sharper edge which will resist wear better and last longer because as particles break off there is less rounding of the cutting edge.



TiCo™ Hi-Density Industrial Carbide Blend Chart

Increasing Impact Strength

Increasing Hardness



Non-Ferrous TiCo™ Hi-Density Carbide Blend

High cobalt content-allowing the carbide to withstand impact when cutting non-ferrous metals



Medium Cobalt content-allowing the carbide to withstand the impact demands when ripping.



General Purpose TiCo™ Hi-Density Carbide Blend

A perfect blend of Cobalt, Titanium and Tungsten – both impact resistant and hard carbide for general purpose applications.



Combination TiCo™ Hi-Density Carbide Blend

A little less Cobalt content and more Hi-Density Tungsten Carbide – allowing the carbide to keep an edge longer in combination applications.



More Hi-Density
Tungsten Carbide
content making the
carbide very hard –
allowing the carbide to
maintain a sharp cutting
edge in crosscut
applications.



Super Hi-Density
Tingsten Carbide – half
the size of standard
micro-grain carbide (.4
microns vs. .8) making
this carbide the hardest
of all to withstand
laminate, melamine &
solid surface cutting –
while still giving a chip
and swirl-free cut.

All of these technological advancements add up to:

- Sharper Edge—Flawless Finish
- Controlled Wear—Stays Sharper 4X Longer
- Precise Formulation—Maximum Performance
- More sharpenings—More cut for the money
- Extra Long Life—More cut for the money



Freud—Leaders In Coating Technology

All Freud blades feature industry-first protective coatings to shield the blades from extreme heat, build-up and corrosion.



About Freud's Silver I.C.E.™ (Industrial Cooling Element) Coating

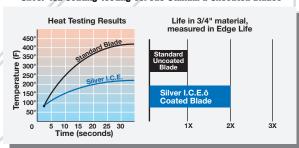
Silver I.C.E.™ Coating - a revolutionary new coating that resists corrosion and resin or "pitch" build-up and resists heat up to 2 times longer than standard polished blades.

Blades featuring **Silver I.C.E.™** Coating resist corrosion and build-up, and have 2 times more heat resistance and life than polished blades.

Silver I.C.E™ Coating protects the blade from heat stress that can cause rapid loss of tension, which in turn causes blade warp, over heating and poor cut quality. Additionally, this coating reduces the possibility for pitch build-up, which further reduces the heat element responsible for drag on the motor. Less drag means longer tool life and longer blade life. Less pitch also means less down time for blade cleaning.



Silver ICE Coating Testing Versus Standard Uncoated Blades



Perma-SHIELD®

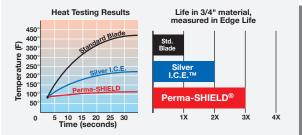
About Freud's Perma-SHIELD® Coating

Perma-SHIELD® - a state of the art formulation produces a coating that is superior to any today, and will withstand the toughest woodworking applications. Combine **Perma-SHIELD®** Industrial Coating System with the other features Freud has pioneered, on a full range of products, and you have a superior wood cutting tool that will answer the needs of all woodworkers.

Perma-SHIELD® - coating virtually eliminates heat generated from friction. The non-stick coating envelops the blade plate and cutting edge in a protective layer resulting in complete thermal insulation in even the harshest conditions. Blades coated with **Perma-SHIELD®** resist binding in large volume cutting, which reduces blade warp. This lubricating feature allows the blades to spin freely and reduce stress on the motor and saw carriage, in turn prolonging the life of the machine. Like Silver I.C.E., **Perma-SHIELD®** eliminates pitch and debris build-

up reducing down time for cleaning.





Freud—Leaders In Coating Technology

freud Coated Blades

Coating Carried

Coated Blades Reduce Blade Drag

Freud's coatings significantly reduce blade drag keeping the blade cool, improving the quality of cut, and extending the life of the blade.

Standard Incoated Blade



Standard Uncoated Saw Blades

A non-coated saw blade produces more drag and develops more heat. This heat distorts most saw blades, compromising its cut quality and reducing its cutting life.

freud Coated Blades



Prevents Corrosion

Freud coatings protect the blade from humidity and corrosion, therefore improving feed rate and extending the life of the blade.

Standard



Open to Corrosion

A non-coated saw blade is more susceptible to corrosion, therefore increasing blade drag, reducing blade life, and causing more strain on the saw's motor.

freud



Reduces Pitch Build-up

Freud's coatings reduces pitch build up; maintaining the quality of cut and reducing blade clean up time.

Standard



Pitch Build-up

A non-coated saw blade is receptive to pitch build up; altering the blade's cutting performance with life and finish.

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Freud—Leader In Manufacturing & Engineering

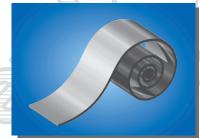




Premium Anti-Fatigue Steel

Pre-Hardened and pre-flattened steel (46 to 48 Rc) - recognized as the world's highest quality steel - ensures precision manufacturing and performance longevity, even under heavy load.

ompetitors



Average Soft Rolled Steel

Rolled, soft steel (30 Rc) cannot maintain precision manufacturing tolerances and is therefore unable to remain stable and precise under load.



High Performance Laser Cut

Revolutionary high-tech lasers cut each Freud saw blade, ensuring a precise blade body time after time. These lasers are so powerful, Freud is able to utilize a high strength steel (46 to 48 Rc) for the blade bodies, so they will remain flat and true, even after years of use.

Competitors



Stamped Die Cut Blades

Most other manufacturers are forced to use a softer metal (30 Rc) because the 'stamp' or die is also made of steel. This punching process cuts 2/3 of the way through the material; the remaining 1/3 is stretched until it tears. This process creates stresses in the blade that often lead to blade flexing and 'wandering' within the cut.



Safety Feature: Kickback Reducing Design

New shoulder design for added safety, reduces the effects of dangerous kickbacks and make the saw blades good at cutting wood with loose knots & nails, and are superb at cutting even the poorest quality chipboard.



No Safety Feature

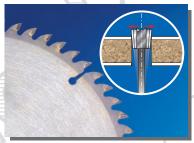
Saw blades without anti-kickback system gives no safety benefit at all to the user and may also damage the blade and the workpiece itself.

Freud—Leader In Manufacturing & Engineering



Freud's anti-vibration design stabilizes the blade to reduce chatter for a flawless finish and long life. This feature also produces a low noise saw blade.

Competitors



No Anti-Vibration

Saw blades without anti-vibration vent technology can move sidways in the cut producing chattering and noise, resulting in poor cut quality.

freud



Balancing

All Freud blades are precision balanced to ensure vibration-free cuts. Blades are balanced on computer-controlled equipment that determines exactly where material needs to be removed. Once material is removed, the blade is rechecked to ensure that it is perfectly balanced.

Competitors



Imperfectly Balanced Saw Blades

A non-balanced blade has different weights in various parts of its body which evokes vibration during rotation and an unbalanced blade can also chatter and create unnecessary rework costing quality, time, and money.

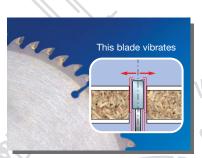
freud



Tensioning Ring

Pretensioning balances the centrifugal and thermal forces the blade endures while cutting and ensures that the blade stays truer under load. Freud's exclusive computer-controlled equipment pretensions the blades, leaving a faint ring near the outside diameter of the blades.

Competitors



Non-Tensioned Blade

Some manufactures do not tension their blades. Saw blades that are not properly tensioned cannot handle changes in temperature and stresses endured in standard cutting applications. A non-tensioned blade can lead to an unstable cut causing premature wear of carbide teeth, poor cutting finish and a reduction in the cutting life of a saw blade.

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Freud—Leader In Manufacturing & Engineering



Expansion Slots Reduce Noise

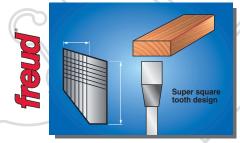
The Freud designed laser cut expansion slots are unique in design to dissipate blade stress over a greater area and produce a quieter operation.





High Noise with Die Cut Expansion Slots

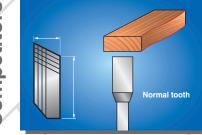
Other designs are not as effective at reducing stress. Punched holes can lead to cracking and high noise.



Super Square Tooth Design

The super square tooth cuts more precisely than a normal tooth and with a higher number of sharpenings, lasting longer than standard teeth.

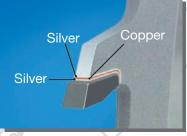




Normal Tooth

The larger cutting surface of a traditional tooth compromises the cutting quality because the tool tends to follow the work pieces grain.





Tri-Metal Brazing

Freud's innovative Tri-Metal Brazing process bonds the carbide tips to the steel blade body. This method consists of copper alloy sandwiched between layers of silver alloy. The copper allows for flexibility and impact resistance to protect the carbide tips and steel shoulders when cutting knots, laminates, hardwoods, etc.



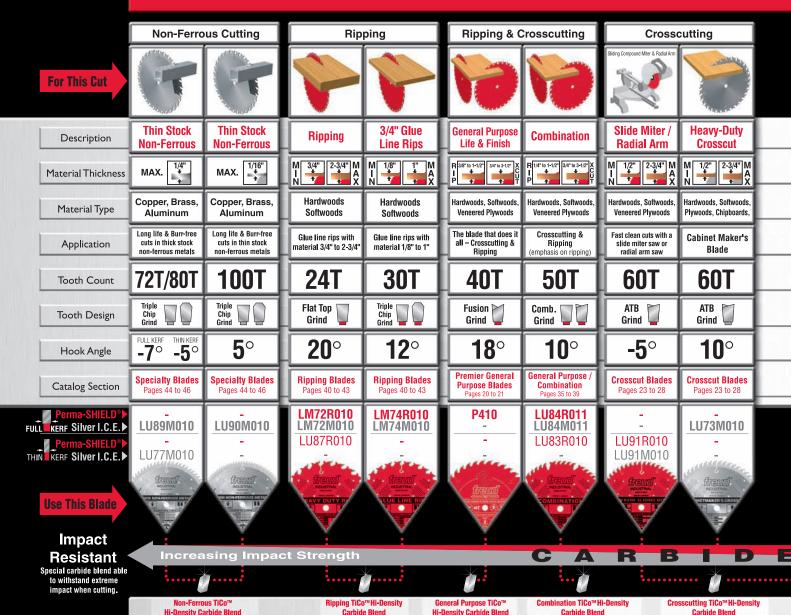


Standard Brazing

Other manufacturers only use silver alloy, which does not allow for expansion during operation. This causes the bond to develop stresses, leading to cracks in the carbide and failed joints.



GUIDE TO CHOOSING A



High Cobalt content - allowing

the carbide to withstand impact

when cutting non-ferrous

metals.



Medium Cobalt content -

allowing the carbide to

withstand the impact

demands when ripping,

Oversized Carbide

A perfect blend of cobalt,

titanium and tungsten - both

impact resistant and hard

carbide for general purpose

applications.

for up to 4 times more resharpenings.



A little less Cobalt content and

more Hi-Density tungsten carbide

allowing the carbide to keep an

edge longer in combination

More Hi-Density tungsten carbide content making the carbide very hard - allowing the carbide to maintain a sharp cutting edge in crosscut applications.

MORE WORK...

50-60% larger than standard carbide teeth

Pretensioned Blade Balances the centrifugal & thermal forces on the blade for truer cuts under load.



USE FULL KERF BLADES FOR ULTIMATE STABILITY





Freud-Made Hi-Density TiCo™ Carbide

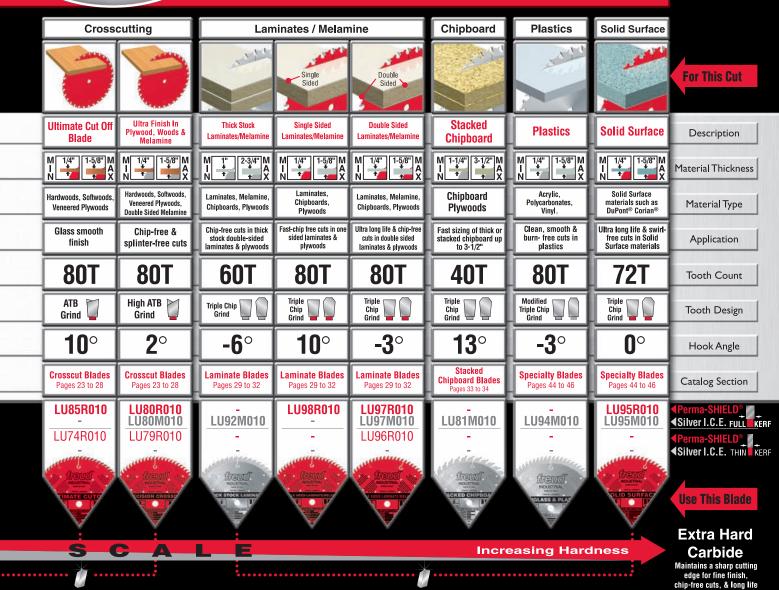
Freud uses extremely dense, ultra-fine carbide grain (up to 40% smaller) giving more actual carbide per tooth for a sharper edge and longer life.



Laser Cut High Strength Steel Ensures stable, flat, & true blades even after years of

freud

10" SAW BLADE



Crosscutting TiCo™ Hi-Density

More Hi-Density tungsten carbide content making the carbide very hard - allowing the carbide to maintain a sharp cutting edge in crosscut applications.

Laminate / Plastic / Solid Surface TiCo™ Super Hi-Density Carbide Ble

Super Hi-Density Tungsten Carbide - half the size of standard MicroGrain carbide (.4 microns vs. .8) making this carbide the hardest of all to withstand laminate, melamine & solid surface cutting while still giving a chip and swirl-free cut.

No Scoring **Blade Needed** Reduces chatter leaving a flawless cut in laminates & melamine.



Laser Cut Anti-**Vibration Slots**

A breakthrough innovation designed & engineered by Freud to minimize blade vibration.



...LESS CHATTER

No Aftermarket Stabilizer Needed Stable blade provides superior finish & long cutting life.



Drastically Reduces Vibration & Sideways

For clean and true cuts in each application. **USE FULL KERF BLADES FOR** LL KERF BLADES FOR
ULTIMATE STABILITY FULL KERF



USE THIN KERF BLADES FOR FAST CUTS OR FOR SAWS UNDER 3HP





Premier

FUSION



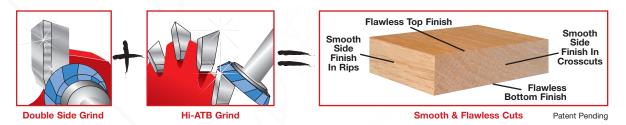




Advanced Blade On The Market!

The Fusion tooth design fuses Freud's 30° Hi-ATB tooth with Freud's unique double side grind tooth geometry. The design provides a glass smooth side finish while also giving a flawless top & bottom finish in veneered plywood, hardwoods, and melamine.







Combination of unique design and special polymer filler reduces vibration above and beyond any other blade resulting in superior performance.

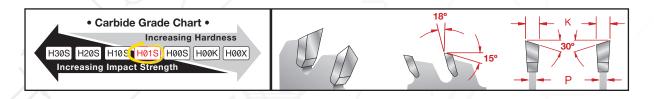
One Blade Does It All-Crosscuts & Rips





Freud engineers have discovered the ultimate combination of fused tooth grind geometry, blade body rigidity, precise tensioning, a special carbide blend and superior carbide brazing, non-stick Perma-SHIELD® coating and high performance anti-vibration - all working together in concert to provide the ultimate cut. One blade does it all. Whether you're ripping or crosscutting, a Premier Fusion blade will tackle any project.

Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
P408	8"	34 Hi-ATB	5/8"	.126	.098
P410	10"	40 Hi-ATB	5/8"	.126	.098
P412	12"	48 Hi-ATB	1"	.126	.098
P414	14"	54 Hi-ATB	1"	.126	.098





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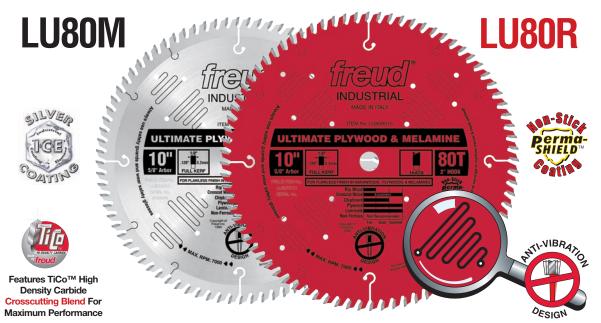








Ultimate Plywood & Melamine Blades



Flawless Finish In Veneered Plywood, **Melamine & Laminates For Virtually Chip-Free Cuts**

Application









The LU80 saw blade provides flawless, chipfree edges in veneered plywoods, fine moldings, melamine, laminates, and crosscuts in solid woods. Using advanced technology, Freud developed this line of saw blades that features laser-cut, anti-vibration slots that practically eliminate the vibrations that resonate in standard blades. The combination of High ATB tooth design and anti-vibration slots makes these blades the ultimate finish blades. The result is a cut so smooth it eliminates the need for stabilizer or a scoring blade!



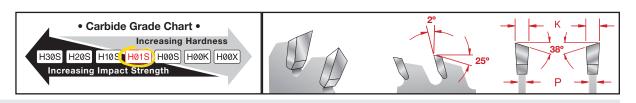
High Alternate Top Bevel (HiATB) Tooth Design produces splinter-free cuts



Laser-Cut Anti-Vibration Slots

drastically reduce vibration and sideways movement in the cut extending blade life and giving a crisp, splinter-free flawless finish

	Silver ICE™	Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
NEW	LU80M010	LU80R010	10"	80 Hi-ATB	5/8"	.126	.087
NEW	LU80M012	LU80R012	12"	96 Hi-ATB	1"	.126	.087





Thin Kerf Ultimate Plywood & Melamine Blades









Flawless Finish In Veneered Plywood, Melamines & Laminates For Virtually Chip-Free Cuts



Features TiCo™ High Density Carbide Crosscutting Blend For Maximum Performance



Depth of Cut



Using advanced technology, Freud developed the LU79 thin kerf line of saw blades that features laser-cut, anti-vibration slots that practically eliminate the vibrations that resonate in standard blades. This blade provides flawless, chip-free edges in veneered plywoods, fine moldings, melamine, laminates, and crosscuts in solid woods. The combination of Hi-ATB tooth design and anti-vibration slots makes these thin kerf blades the ultimate finish blades. The result is a cut so smooth it eliminates the need for a stabilizer or a scoring blade!



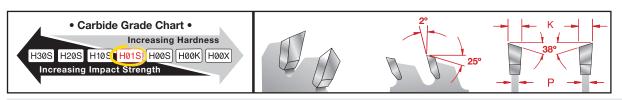
Laser-Cut Anti-Vibration Slots

drastically reduce vibration and sideways movement in the cut extending blade life and giving a crisp, splinter-free flawless finish

|--|--|

High Alternate Top Bevel (HiATB)
Tooth Design produces splinter-free
cuts

Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU79R010	10"	80 Hi-ATB	5/8"	.098"	.071"
► LU79R012	12"	96 Hi-ATB	1"	.098"	.071"





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Application

No Stabilizers Needed

Features TiCo™ High **Density Carbide Crosscutting Blend For Maximum Performance**

Industrial Ultimate Cut-Off Blades



Ultimate Crosscutting Blades For Glass-Smooth Finishes

Recommended Use & Cut Quality RIPS WOOD: **CROSSCUTS WOOD:** CHIP BOARD: 1" Max PLYWOOD: LAMINATE: 📻 NON-FERROUS: Not Recommended CUT QUALITY: Fair

(Not recommended for ferrous metals or masonry)



Depth of Cut



This superior blade gives glass-smooth finishes when crosscutting hard and soft woods, so no sanding is required. What makes this blade so special is the unique side grinding of each tooth. The teeth actually polish the material as it cuts. New laser-cut anti-vibration slots practically eliminate the vibration that resonates in standard blades, producing glass-smooth finishes. With a finish this perfect you won't need stabilizers!



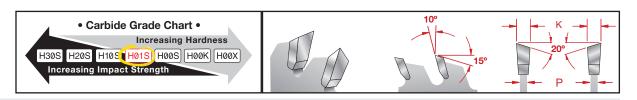
Unique Side Grind polishes the material to produce a superior finish



Laser-Cut Anti-Vibration Slots

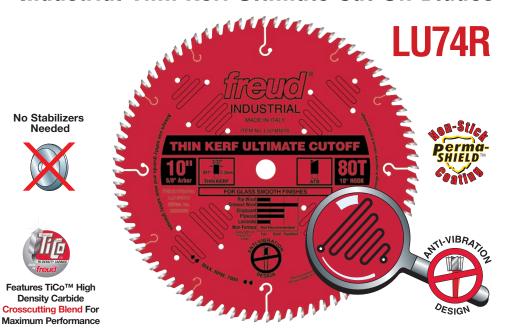
drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, flawless finish

Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU85R008	8"	64 ATB	5/8"	.116	.098
LU85R009	9"	72 ATB	5/8"	.116	.098
LU85R010	10"	80 ATB	5/8"	.116	.098
LU85R012	12"	96 ATB	1"	.116	.098
LU85R014	14"	108 ATB	1"	.136	.118
LU85R015	15"	108 ATB	1"	.136	.118





Industrial Thin Kerf Ultimate Cut-Off Blades







Ultimate Cut-Off Blades For Glass-Smooth Finishes With Underpowered Saws



Needed



Depth of Cut



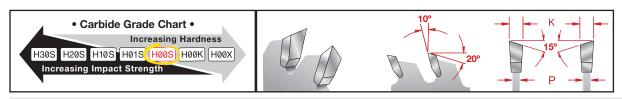
This thin kerf blade produces glass smooth surfaces when crosscutting hardwoods and softwoods, thanks to Freud's unique side grinding technology. The larger blades are ideal for miter box applications. Thin kerf blades remove less material than standard carbide blades, thus requiring less horsepower to produce equally good results.





Thin Kerf allows for easier feeding and reduced waste

Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU74R008	8"	64 ATB	5/8"	.087	.063
LU74R010	10"	80 ATB	5/8"	.091	.071
LU74R012	12"	96 ATB	1"	.091	.071
LU74R014	14"	108 ATB	1"	.118	.087







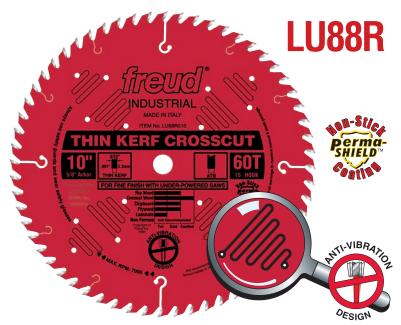








Industrial Thin Kerf Fine Finish Crosscut Blades



Crosscutting Blades For Fine Finish With Underpowered Saws

Application 26



Features TiCo™ High **Density Carbide** Crosscutting Blend For **Maximum Performance**

CHIP BOARD: PLYWOOD: LAMINATE: NON-FERROUS: Not Recommended

CUT QUALITY: Fair (Not recommended for ferrous metals or masonry)



Depth of Cut



This Perma-SHIELD™ coated blade gives new life to underpowered saws and produces smooth crosscuts in hardwoods, softwoods and moldings. Coated blades pull 1/3 less on the saw, which translates into 33% more cutting power. Thin kerf blades remove less material than standard carbide blades, thus requiring less horsepower to produce equally good results.

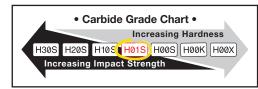


Thin Kerf reduces waste and feeds easier

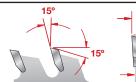


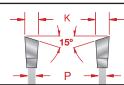
Positive Hook Angles produce a smoother cut and allow for a faster feed rate

Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU88R008	8"	48 ATB	5/8"	.083	.063
LU88R009	9"	54 ATB	5/8"	.090	.071
LU88R010	10"	60 ATB	5/8"	.090	.071
LU88R012	12"	80 ATB	1"	.094	.071



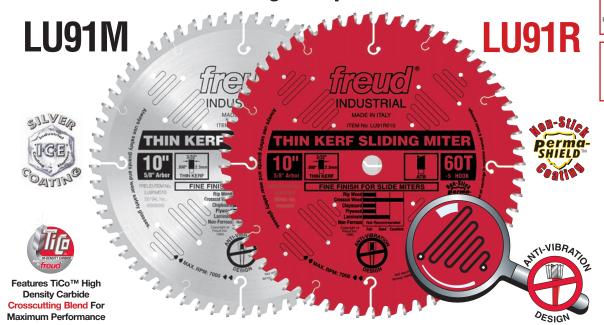








Industrial Thin Kerf Sliding Compound Miter Saw Blades



Fine Finish Blades For Sliding Miter & Radial Arm Saws





Depth of Cut



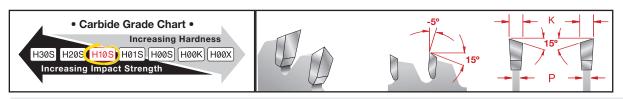
This thin kerf industrial blade provides a superior finish cut with sliding compound miter saws. The 5° negative hook angle helps prevent the blade from being too aggressive and pushes the work piece down and towards the fence. Thin kerf blades remove less material than standard carbide blades, thus requiring less horsepower to produce equally good results.



Negative Hook Angle minimizes climbing for better control

Thin Kerf requires less power and allows for faster feed rate

Silver ICE™	Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU91M008	LU91R008	81/2"	48 ATB	5/8"	.090	.071
LU91M010	LU91R010	10"	60 ATB	5/8"	.090	.071
LU91M012	LU91R012	12"	72 ATB	1"	.090	.071







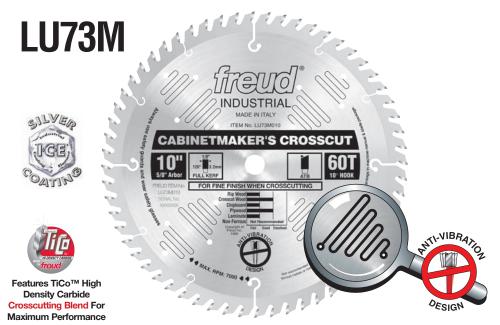








Industrial Cabinetmaker's Crosscut Blades



Heavy-Duty Crosscutting Blades Designed For The Industrial Cabinetmaker

Recommended Use & Cut Quality Application

RIPS WOOD: CROSSCUTS WOOD: CHIP BOARD: PLYWOOD: LAMINATE: **NON-FERROUS: CUT QUALITY:** Fair (Not recommended for ferrous metals or masonry)



Depth of Cut



This heavy-duty crosscut blade is designed primarily for heavy use in a cabinetmaker's shop. Combining a 10° hook angle and the alternate top bevel tooth grind, this blade provides a good crosscut and long cutting life in hardwood, softwood, plywood, and chipboard. The LU73M series is ideal for cutting a wide variety of materials most commonly used by cabinet makers in thicknesses from 1/2" to 2-3/4" thick.

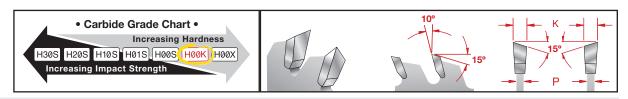


Alternate Top Bevel (ATB) Tooth Design gives quality crosscuts



Precision Tensioning with computercontrolled equipment keeps the blade flat and true while maximizing blade life and performance

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU73M008	8"	48 ATB	5/8"	.126	.087
LU73M009	9"	54 ATB	5/8"	.126	.087
LU73M010	10"	60 ATB	5/8"	.126	.087
LU73M012	12"	72 ATB	1"	.126	.087
LU73M014	14"	84 ATB	1"	.138	.098
LU73M016	16"	96 ATB	1"	.150	.110
LU73M018	18"	108 ATB	1"	.157	.118





Industrial Single Sided Laminate/Melamine Blade















Features TiCo™ High **Density Carbide** Laminate Blend For **Maximum Performance**

Long Life, Production Blades For Single-Sided Laminates, Chip Board And Other Manmade Materials





Depth of Cut



This fast-cutting blade is ideal for a perfect finish on one side of laminates and melamines. The Perma-SHIELD™ coating makes these blades resistant to friction and heat build-up. Coated blades pull 1/3 less on the saw, which translates into 33% more cutting power. The 10° hook angle and a triple chip grind provide fast cuts and long cutting life.

MTI-VIBRAN



Triple Chip Grind (TCG) Tooth Design with a positive hook angle for long life in production applications



Positive Hook Angle for fast cutting and easy feed

Perma-SHIELD™	Dia.	Teeth	Arbor	Hook Angle(H)	Kerf(K)	Plate(P)
LU98R007	7"	56 TCG	5/8"	5°	.126	.087
LU98R008	8"	64 TCG	5/8"	5°	.126	.087
LU98R009	9"	72 TCG	5/8"	5°	.126	.087
LU98R010	10"	80 TCG	5/8"	5°	.126	.087
LU98R012	12"	96 TCG	1"	5°	.126	.087
LU98R014	14"	108 TCG	1"	7°	.138	.098
LU98R016	16"	120 TCG	1"	10°	.150	.110







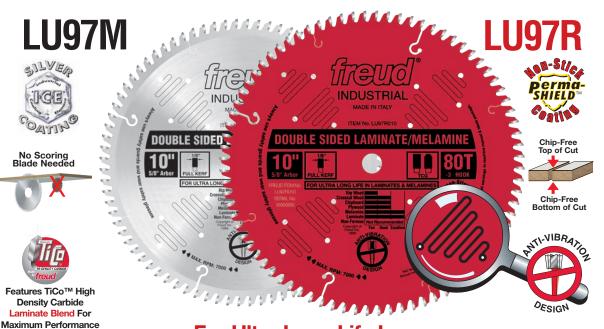








Industrial Double Sided Laminate/Melamine Blades



For Ultra Long Life In **Double Sided Manmade Materials**

Application 30



RIPS WOOD: CROSSCUTS WOOD: CHIP BOARD: PLYWOOD: MELAMINE: LAMINATE: **NON-FERROUS:**





Depth of Cut



Designed to give long life and excellent finish on the top and bottom of laminates, melamine & veneered plywood. The laser-cut anti-vibration design yields the plate acoustically dead. This reduces the sideways movement of the cutting edge to prevent chipping in manmade materials such as laminates. This dramatically extends cutting life and finish. No scoring blades needed with this blade!



Triple Chip Grind (TCG) Tooth Design

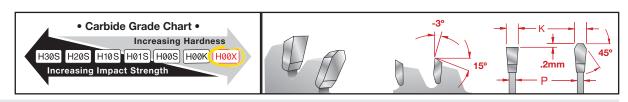
with a negative hook angle for superior life in abrasive man-made materials



Laser-Cut Anti-Vibration Slots

drastically reduce vibration and sideways movement in the wood extending blade life and giving a crisp, splinter-free flawless finish

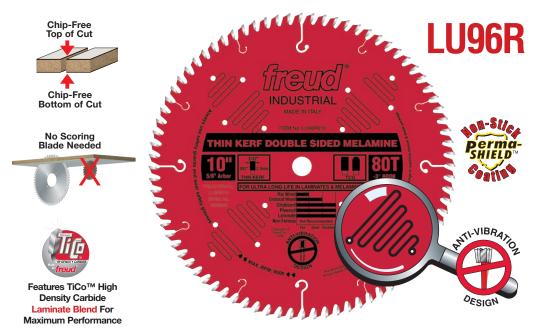
Silver ICE™	Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU97M008	LU97R008	8"	64 TCG	5/8"	.126	.087
LU97M010	LU97R010	10"	80 TCG	5/8"	.126	.087
LU97M012	LU97R012	12"	96 TCG	1"	.126	.087
LU97M014	LU97R014	14"	108 TCG	1"	.138	.098





freud®

Industrial Thin Kerf Double Sided Laminate/Melamine











For Ultra Long Life In Double Sided Manmade Materials





Depth of Cut



The LU96R is a thin kerf blade that is designed to give long life and excellent finish on the top and bottom of laminates, melamine & veneered plywood. The laser-cut anti-vibration design yields the plate acoustically dead. This reduces the sideways movement of the cutting edge to prevent chipping in manmade materials such as laminates. This dramatically extends cutting life and finish. No scoring blades needed with this blade!



Triple Chip Grind (TCG) Tooth Design with a pegative book angle for

with a negative hook angle for superior life in abrasive man-made materials



Thin Kerf requires less power and allows for faster feed rate

Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU96R008	8"	64 TCG	5/8"	.083	.063
LU96R010	10"	80 TCG	5/8"	.091	.071
LU96R012	12"	96 TCG	1"	.091	.071







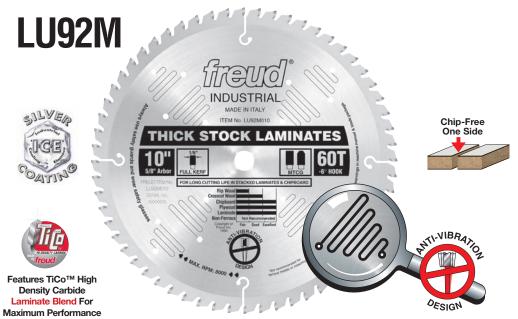








Industrial Thick-Stock Laminate Blades



Long Life Production Blades For Double Sided Laminates And Stacked Chipboard

Recommended Use & Cut Quality Application

RIPS WOOD: **CROSSCUTS WOOD:** CHIP BOARD: PLYWOOD: LAMINATE: NON-FERROUS: **CUT QUALITY:** Fair (Not recommended for ferrous metals or masonry)



Depth of Cut



This heavy-duty production blade produces an excellent finish on the top and bottom of thick laminates and melamine. The LU92M series is ideal for cutting stacked 3/4" laminates and melamine. Each tooth has a special modified triple chip grind design created by computer simulation to breeze through thick stock and single or double-sided laminates, leaving a chip-free edge.

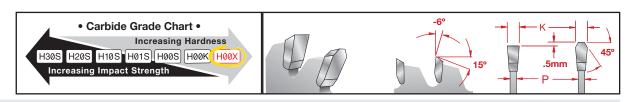


Modified Triple Chip Grind (MTCG) Tooth Design for long life and chipfree cuts in thick stock manmade materials



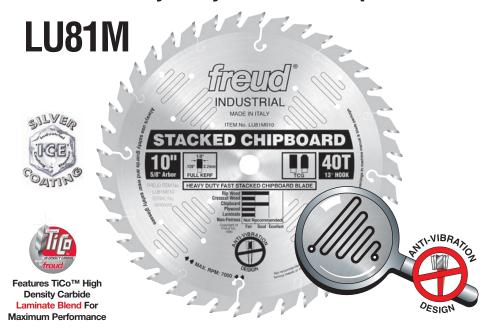
Negative Hook Angle minimizes chipping in laminates and melamine

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU92M008	8"	48 MTCG	5/8"	.126	.087
LU92M009	9"	56 MTCG	5/8"	.126	.087
LU92M010	10"	60 MTCG	5/8"	.126	.087
LU92M012	12"	72 MTCG	1"	.126	.087
LU92M014	14"	84 MTCG	1"	.138	.098





Industrial Heavy Duty Stacked Chipboard Blades











Heavy Duty Fast Stacked Chipboard Blades





Depth of Cut



This blade is ideal for sizing sheet goods (chipboard, plywood, laminates, MDF) where speed is more important than a smooth finish or when cutting stacks of material. These blades are best used when cutting plywood and composition material, but they can also be used with hardwood and softwood.

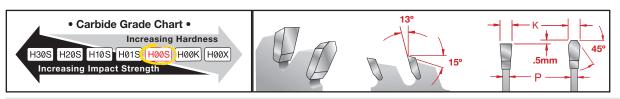


Triple Chip Grind (TCG) Tooth Design offers longer life when cutting abrasive manmade materials



Positive Hook Angle for fast cutting and easy feeding in production applications

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU81M008	8"	32 TCG	5/8"	.126	.087
LU81M010	10"	40 TCG	5/8"	.126	.087
LU81M012	12"	48 TCG	1"	.126	.087
LU81M014	14"	56 TCG	1"	.138	.098
LU81M016	16"	60 TCG	1"	.150	.110





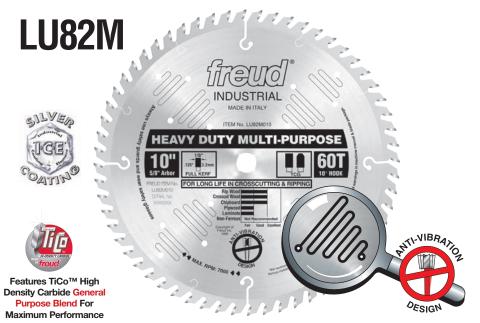








Industrial Heavy Duty Multi-Purpose Blades



For Long Life In Stacked **Chipboard And Manmade Materials**



Recommended Use & Cut Quality

RIPS WOOD: **CROSSCUTS WOOD:** CHIP BOARD: PLYWOOD: LAMINATE: NON-FERROUS: **CUT QUALITY:**

(Not recommended for ferrous metals or masonry)





This multi-purpose blade will cut stacks of manmade wood products as well as hardwood and softwood up to 2-3/4" thick. The blade's deep gullets and TCG rip and crosscut through hardwoods and softwoods with ease. Although the ideal working range is 1/2" to 2-3/4" thick, thinner or thicker materials may be cut, resulting in some loss of surface finish.



Freud-Made TiCo™ Carbide is durable and chemical-resistant for long life and razor-sharp cuts



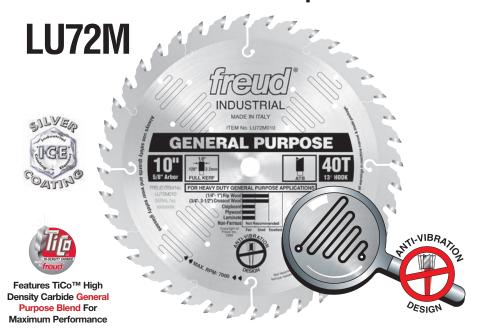
Precision Tensioning with computercontrolled equipment keeps the blade flat and true while maximizing blade life and performance

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU82M008	8"	48 TCG	5/8"	.126	.087
LU82M009	9"	56 TCG	5/8"	.126	.087
LU82M010	10"	60 TCG	5/8"	.126	.087
LU82M012	12"	72 TCG	1"	.126	.087
LU82M014	14"	84 TCG	1"	.169	.118
LU82M016	16"	96 TCG	1"	.177	.118





Industrial General Purpose Blades











For Heavy-Duty General Purpose Applications



PLYWOOD:
LAMINATE:
NON-FERROUS:
Not recor

CUT QUALITY: Fair Good Excellent
(Not recommended for ferrous metals or masonry)



This heavy-duty blade is good for crosscutting thick hardwoods and softwoods and thinner stock materials. The ideal working range is from 3/4" to 3-1/2" thick for crosscutting, and 1/4" to 1" thick for ripping. Thinner or thicker material may be cut, but some loss of surface finish may occur.

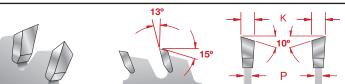




Heavy-Duty Thick Kerf and Plate ensure a stable, flat blade for long cutting life

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU72M008	8"	34 ATB	5/8"	.126	.087
LU72M009	9"	36 ATB	5/8"	.126	.087
LU72M010	10"	40 ATB	5/8"	.126	.087
LU72M012	12"	48 ATB	1"	.126	.087
LU72M014	14"	54 ATB	1"	.138	.098
LU72M016	16"	60 ATB	1"	.150	.110
LU72M018	18"	66 ATB	1"	.157	.118
LU72M020	20"	72 ATB	1"	.165	.126











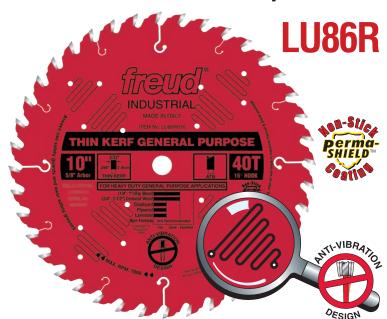








Industrial Thin Kerf General Purpose Blades



For Heavy-Duty General Purpose Applications

Recommended Use & Cut Quality

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

RIPS WOOD 1/4" to 1": CROSSCUTS WOOD 3/4" to 31/2": CHIP BOARD: PLYWOOD: LAMINATE: NON-FERROUS: CUT QUALITY: Fair (Not recommended for ferrous metals or masonry)



This heavy-duty thin kerf blade is good for crosscutting thick hardwoods and softwoods and thinner stock materials. The ideal working range is from 3/4" to 3-1/2" thick for crosscutting, and 1/4" to 1" thick for ripping. Thinner or thicker material may be cut, but some loss of surface finish may occur.

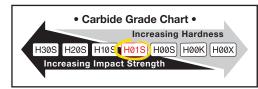


Positive Hook Angle for fast cutting and easy feeding in production applications

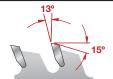


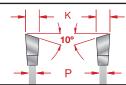
Heavy-Duty Thick Kerf and Plate ensure a stable, flat blade for long cutting life

Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU86R008	8"	34 ATB	5/8"	.087	.063
LU86R010	10"	40 ATB	5/8"	.094	.071
LU86R012	12"	48 ATB	1"	.094	.071
LU86R014	14"	54 ATB	1"	.106	.079







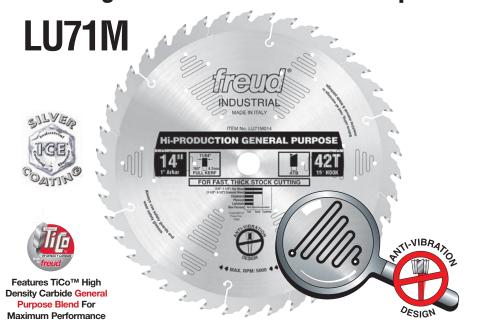




Industrial High-Production General Purpose Blades







For Fast, Thick Stock Cutting





1/4" MIN.

4" MAX.

This highly aggressive general purpose blade is ideal for a production environment. With its low number of teeth and steep hook angle, this blade can operate at high feed rates. These features also make it the blade of choice when crosscutting extremely thick stock. Use it with dimension stock where speed is more important than surface quality. The ideal working range is from 1/4" to 1-1/4" thick for ripping and 1-1/2" to 3-1/2" thick for crosscutting. Thicker or thinner material may be cut, but some loss of surface finish may occur.



Positive Hook Angle for fast cutting and easy feeding in production applications

Heavy Duty Thick Plate ensures a stable, flat blade for long cutting life

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU71M014	14"	42 ATB	1"	.165	.118
LU71M016	16"	48 ATB	1"	.177	.118







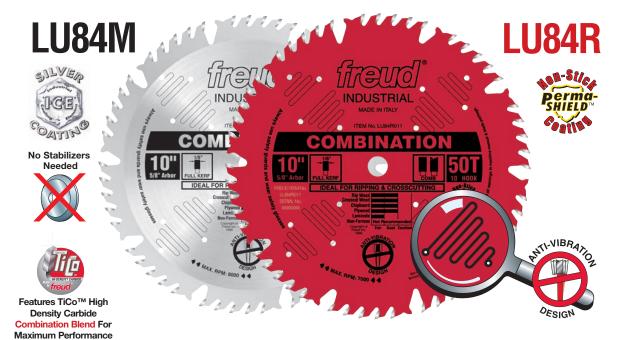








Industrial Combination Blades



Heavy-Duty Combination Blades

Application

Recommended Use & Cut Quality

RIPS WOOD: CROSSCUTS WOOD: CHIP BOARD: PLYWOOD: LAMINATE: NON-FERROUS: Not Recommended **CUT QUALITY:** (Not recommended for ferrous metals or masonry)





In many woodworking shops, one saw must serve multiple purposes. It must rip a piece of 4/4 oak and also crosscut a sheet of 3/4" plywood. The groups of five teeth include one flat tooth for ripping, followed by four alternate top bevel teeth for crosscutting and a large gullet for effective chip clearance. This blade also features laser cut anti-vibration slots, practically eliminating the vibration that resonates in standard blades. With this ultimate combination blade, there is no need for stabilizers.



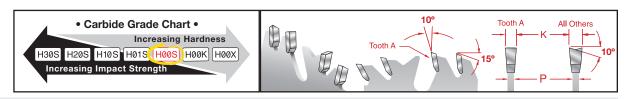
Large Gullets in front of flat top rakers allow for fast ripping and easy chip removal



Laser-Cut Anti-Vibration Slots

drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, flawless finish

Silver ICE™	Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU84M008	LU84R008	8"	40 COMB	5/8"	.126	.087
LU84M009	LU84R009	9"	40 COMB	5/8"	.126	.087
LU84M011	LU84R011	10"	50 COMB	5/8"	.126	.087
LU84M012	LU84R012	12"	60 COMB	1"	.126	.087
LU84M014	LU84R014	14"	70 COMB	1"	.157	.118
LU84M016	LU84R016	16"	80 COMB	1"	.157	.118





Industrial Thin Kerf Combination Blades











Thin Kerf Heavy-Duty Combination Blades





/2" MAX.

The ultimate combination blade is now available in a thin kerf design with Freud's LU83R. The groups of five teeth include one flat tooth for ripping, followed by four alternate top bevel teeth for crosscutting and a large gullet for effective chip clearance. This blade also features laser cut anti-vibration slots, practically eliminating the vibration that resonates in standard blades. With this combination blade, there is no need for stabilizers.

Thin Kerf requallows for fast

No Stabilizers Needed

Features TiCo™ High Density Carbide Combination Blend For Maximum Performance

Thin Kerf requires less power and allows for faster feed rate



Laser-Cut Anti-Vibration Slots

drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, flawless finish

Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU83R008	8"	40 COMB	5/8"	.083	.063
LU83R010	10"	50 COMB	5/8"	.091	.071
LU83R012	12"	60 COMB	1"	.091	.071
LU83R015	15"	80 COMB	1"	.102	.079





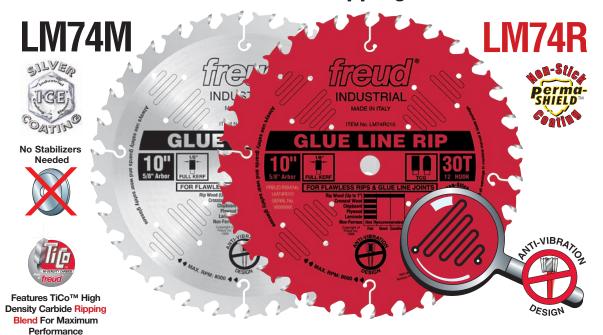








Industrial Glue Line Ripping Blades



Heavy Duty Glue Line Ripping Blades For Superior Finish

Application





(Not recommended for ferrous metals or masonry)



Depth of Cut



This blade's specially designed triple chip tooth design produces extremely smooth, true surfaces for gluing and finish work. There is no need for sanding or jointing after the cut. The ideal working range is from 1/8" to 1" thick. This blade also features laser cut anti-vibration slots, practically eliminating the vibration that resonates in standard blades. With this ultimate ripping blade, there is no need for stabilizers.



Heavy-Duty Thick Kerf and Plate ensure a stable, flat blade for long cutting life



Laser-Cut Anti-Vibration Slots

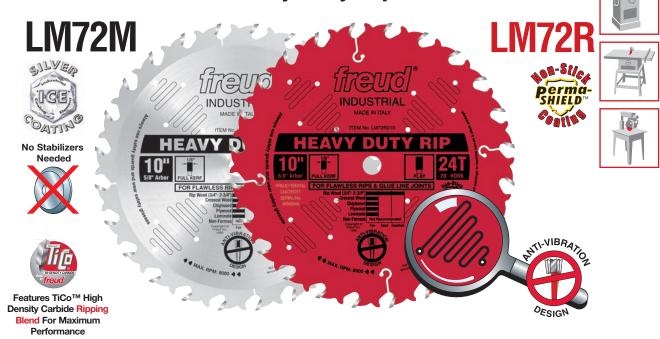
drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, swirl-free flawless finish

Silver ICE™	Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LM74M008	LM74R008	8"	24 TCG	5/8"	.118	.098
LM74M010	LM74R010	10"	30 TCG	5/8"	.118	.098
LM74M012	LM74R012	12"	40 TCG	1"	.118	.098
LM74M014	LM74R014	14"	44 TCG	1"	.138	.118





Industrial Heavy-Duty Rip Blades



Smooth, Fast Heavy-Duty Ripping





Depth of Cut



This blade gives smooth, fast rips in hardwoods and softwoods. The combination of a rigid blade body and razor sharp flat top carbide teeth will provide a "glue line" precision cut. These blades are precision balanced and can be used in gang-rip operations. The ideal working range is from 3/4" to 2-3/4" thick. This blade also features laser cut anti-vibration slots, practically eliminating the vibration that resonates in standard blades. With this ultimate ripping blade, there is no need for stabilizers.





Laser-Cut Anti-Vibration Slots drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, swirl-free flawless finish

Silver ICE™	Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LM72M008	LM72R008	8"	24 FLAT	5/8"	.126	.087
LM72M010	LM72R010	10"	24 FLAT	5/8"	.126	.087
LM72M012	LM72R012	12"	30 FLAT	1"	.169	.118
LM72M014	LM72R014	14"	30 FLAT	1"	.169	.118
LM72M016	LM72R016	16"	36 FLAT	1"	.177	.118



















Heavy-Duty Ripping Blades For Underpowered Saws

3/4" MIN.

Depth of Cut

2 3/4" MAX

Application



This blade gives new life to underpowered table saws and radial arm saws because the thin kerf does not require much horsepower. The Perma-SHIELD™ coating helps this blade pull 1/3 less on the saw, which translates into over 33% more cutting power. The ideal working range is from 3/4" to 2-3/4" thick.



Features TiCo™ High **Density Carbide Ripping Blend For Maximum** Performance

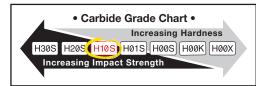


Thin Kerf allows for faster feed rate and reduced waste

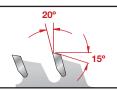


Positive Hook Angle for fast cutting and easy feeding in ripping applications

Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU87R008	8"	22 FLAT	5/8"	.087	.063
LU87R009	9"	22 FLAT	5/8"	.094	.071
LU87R010	10"	24 FLAT	5/8"	.094	.071



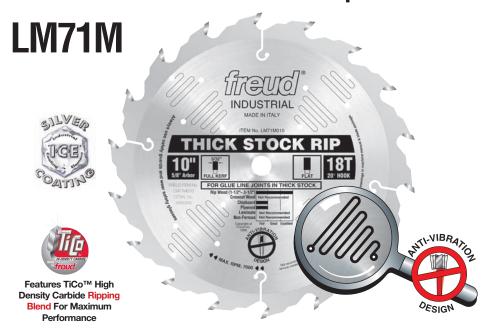








Industrial Thick Stock Rip Blades



For Glue Line Joints In Thick Stock (11/2" - 31/2")





Depth of Cut



This blade is ideal for high-speed ripping operations in hardwood and softwood. The low tooth count also makes this blade ideal for ripping thick material. It can be used with manual feeding as well as with power feeders in single or gang-ripping operations. The ideal working range is 1-1/2" to 3-1/2" thick. Thinner or thicker material may be cut, but some loss of surface finish may occur.





Heavy-Duty Thick Plate ensures a stable, flat blade for long cutting life in extreme ripping conditions



Large Gullets allow for fast ripping and easy chip removal

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LM71M010	10"	18 FLAT	5/8"	.153	.118
LM71M012	12"	20 FLAT	1"	.165	.118
LM71M014	14"	24 FLAT	1"	.165	.118
LM71M016	16"	28 FLAT	1"	.177	.118









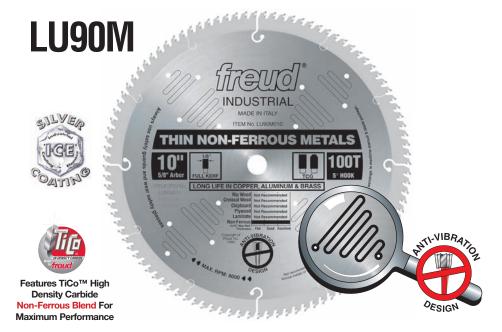








Industrial Thin Stock Non-Ferrous Metal Blades



Cutting Thin Aluminum And Other Non-Ferrous Metals

Recommended Use & Cut Quality

RIPS WOOD:

Not Recommended

CROSSCUTS WOOD:

Not Recommended

PLYWOOD:

Not Recommended

PLYWOOD:

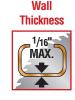
Not Recommended

NON-FERROUS:

CUT QUALITY:

Fair Good Excellent

(Not recommended for ferrous metals or masonry)



This blade produces a smooth, burr-free finish when cutting thin aluminum, brass and other non-ferrous metal extrusions. A high tooth count with a 5° hook angle allows the teeth to slice efficiently through the material without binding. The requirements on the cutting edge greatly differ with nonferrous metals than with cutting wood. With this in mind, Freud formulated a special carbide with high impact strength for this blade. Freud recommends use of a liquid lubricant when cutting non-ferrous materials. This can be accomplished with a spray of WD-40 or other similar type of lubricant every 4 or 5 cuts. Wax sticks are not recommended.

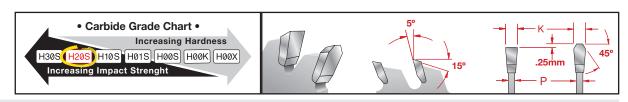


Positive Hook Angles produce a smoother cut with less material distortion and burr free cuts



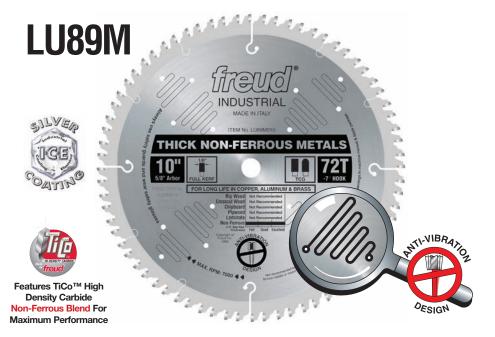
Freud-Made TiCo™ Carbide specifically designed to cut non-ferrous metals extends tooth life and withstands impact

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU90M010	10"	100 TCG	5/8"	.110	.087
LU90M012	12"	120 TCG	1"	.118	.098





Industrial Thick Non-Ferrous Metal Blades











Cutting Thick Non-Ferrous Materials And Aluminum

Recommended Use & Cut Quality RIPS WOOD: - Not Recommended -CROSSCUTS WOOD: -- Not Recommended -CHIP BOARD: - Not Recommended -PLYWOOD: -— Not Recommended -LAMINATE: ------- Not Recommended -NON-FERROUS:

MAX.

(Not recommended for ferrous metals or masonry)

CUT QUALITY: Fair Good Excellent

Wall **Thickness**



This heavy-duty, non-ferrous metal cutting blade produces an excellent finish. These blades have custom designed gullets to minimize chip build-up and specially formulated carbide for long life. Freud recommends use of a liquid lubricant when cutting. This can be accomplished with a spray of WD-40 or other lubricant every 4 to 5 cuts. Wax sticks are not recommended.



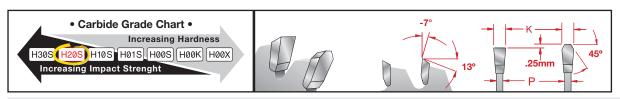


Unique Gullet Design reduces chip build-up, which can cause shoulder damage or breakage



Freud-Made TiCo™ Carbide specifically designed to cut nonferrous metals extends tooth life

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU89M008	8"	58 TCG	5/8"	.122	.098
LU89M009	9"	64 TCG	5/8"	.122	.098
LU89M010	10"	72 TCG	5/8"	.122	.098
LU89M012	12"	86 TCG	1"	.122	.098
LU89M014	14"	100 TCG	1"	.142	.118
LU89M015	15"	108 TCG	1"	.142	.118
LU89M016	16"	114 TCG	1"	.142	.118







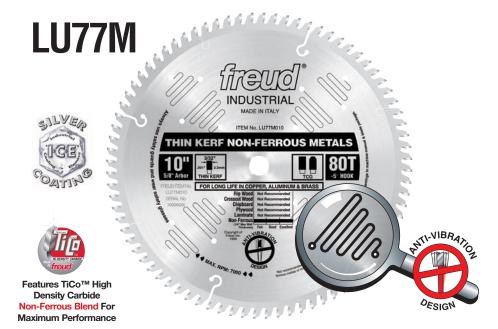








Industrial Thin Kerf Non-Ferrous Metal Blades



Cutting Non-Ferrous Materials And Aluminum

RIPS WOOD: —— Not Recommended ——

RIPS WOOD: Not Recommended

CROSSCUTS WOOD: Not Recommended

CHIP BOARD: Not Recommended

PLYWOOD: Not Recommended

LAMINATE: Not Recommended

NON-FERROUS:

CUT QUALITY: Fair Good Excellent

(Not recommended for ferrous metals or masonry)

Wall Thickness



This thin kerf heavy-duty, non-ferrous metal cutting blade produces an excellent finish. These blades have custom designed gullets to minimize chip build-up and specially formulated carbide for long life. Freud recommends use of a liquid lubricant when cutting. This can be accomplished with a spray of WD-40 or other lubricant every 4 to 5 cuts. Wax sticks are not recommended.

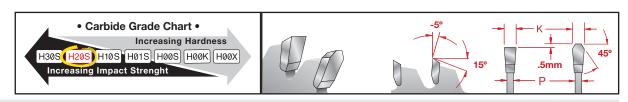


Thin Kerf allows for faster feed rate and reduced waste



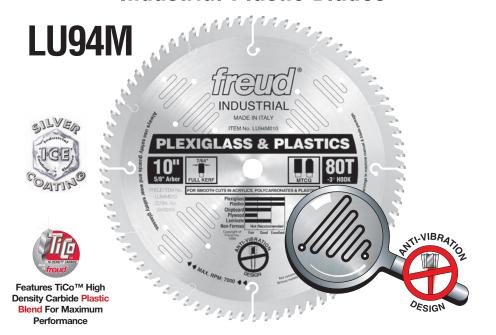
Freud-Made TiCo™ Carbide specifically designed to cut non-ferrous metals extends tooth life

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU77M008	8"	64 TCG	5/8"	.083	.063
LU77M010	10"	80 TCG	5/8"	.091	.071
LU77M012	12"	96 TCG	1"	.091	.071
LU77M015	15"	120 TCG	1"	.098	.079





Industrial Plastic Blades











Plexiglass And Plastics





Depth of Cut



This industrial blade cuts acrylics, polycarbonates and other plastics, leaving a smooth finish without melting. By combining micrograin carbide tips with a specially modified triple chip grind these blades will give a clean smooth cut. These blades produce less heat keeping the cut edge crisp.



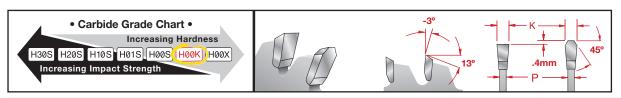


Modified Triple Chip Grind (MTCG)
Tooth Design enables material to
remain cool while cutting,
eliminating melting



Negative Hook Angle produces a superior finish without grabbing the material

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU94M008	8"	64 MTCG	5/8"	.110	.087
LU94M010	10"	80 MTCG	5/8"	.110	.087
LU94M012	12"	96 MTCG	1"	.110	.087
LU94M014	14"	108 MTCG	1"	.110	.087









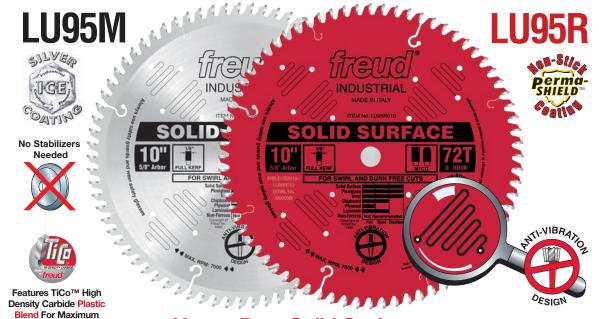








Industrial Solid Surface Blades



Heavy-Duty Solid Surface Blades For Swirl & Burn-Free Cuts

Recommended Use & Cut Quality

Performance

SOLID SURFACE: AND SOLID SURFACE: PLEXIGLASS: VINYL: CHIPBOARD: PLYWOOD: LAMINATE: NON-FERROUS: Not Recommended **CUT QUALITY:** (Not recommended for ferrous metals or masonry)



Depth of Cut



This blade features teeth with a specially designed triple chip grind for leaving swirl-free cuts in solid surface materials such as Dupont® Corian®, Wilsonart Gibralter® and SSV Fountainhead®. The laser-cut anti-vibration slots reduce the sideways movement of the cutting edge against the solid surface material, dramatically extending cutting life. With this ultimate solid surface blade, there is no need for stabilizers.



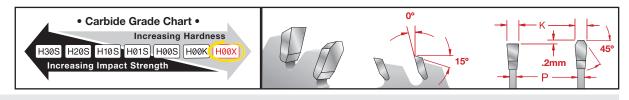
Special Side-Grind Tooth Design enables blade to remain cool while cutting, eliminating melting



Laser-Cut Anti-Vibration Slots

drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, swirl-free flawless finish

Silver ICE™	Perma-SHIELD™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
LU95M008	LU95R008	8"	60 MTCG	5/8"	.126	.087
LU95M010	LU95R010	10"	72 MTCG	5/8"	.126	.087
LU95M012	LU95R012	12"	84 MTCG	1"	.126	.087
LU95M014	LU95R014	14"	96 MTCG	1"	.138	.098









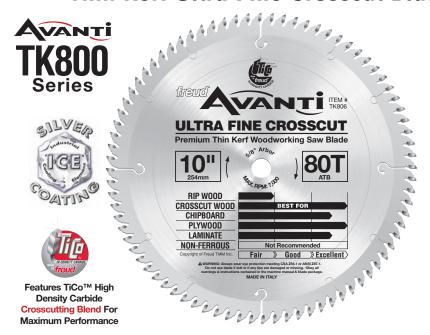








Thin Kerf Ultra Fine Crosscut Blade



Ultra Fine Crosscuts For Velvety Smooth Finish

Application

Recommended Use & Cut Quality



(Not recommended for ferrous metals or masonry)



Depth of Cut



This advanced thin kerf design was created for table saws, miter boxes, and radial arm saws. The razor sharp teeth give smooth crosscuts in hardwood and softwood as well as cutting veneered plywood, chipboard, and delicate mouldings practically chip-free. The thin kerf requires less cutting power which gives more control over the cut for safer operation.

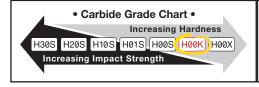


Alternate Top Bevel (ATB) Tooth Design produces splinter-free cuts

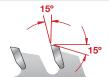


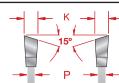
Special Carbide Formulation is the perfect mixture of cobalt, tungsten, and titanium designed to maximize cutting life

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
TK806	10"	80 ATB	5/8"	.098	.071
TK807	12"	96 ATB	1"	.110	.071











freud®

Thin Kerf Sliding Compound Miter/Radial Saw Blades







Sliding Compound Miter Saws & Radial Arm Saws





Depth of Cut



Thin kerf blades are ideal for applications where minimum removal of material or use of an underpowered saw is required. The computer designed, hardened blade body with heat-expansion slots, gives this blade the capability to execute 45 by 45 degree compound miters without burning the wood. Heat-expansion slots help to prevent blade breakage by allowing it to expand during operation when friction-causing heat occurs.

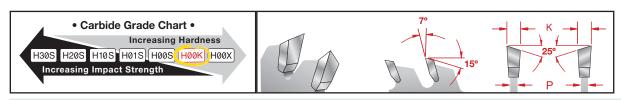


Specially Designed Hook Angle gives a controlled cut and an exceptional finish on the top & bottom of material



Designed and Tuned especially to maximize performance of sliding saws

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
TK604	81/2"	60 ATB	5/8"	.087	.063
TK606	10"	60 ATB	5/8"	.087	.063











Thin Kerf Finishing Blades



Fine Finish Cut-Off Blade

Application 52





(Not recommended for ferrous metals or masonry)



Depth of Cut



This thin kerf saw blade is designed for 10", 12", and 14" portable table saws, radial arm saws, and miter saws, for precise crosscuts in thicker hardwoods and softwoods. Heatexpansion slots help to prevent blade breakage by allowing it to expand during operation where friction-causing heat may occur.

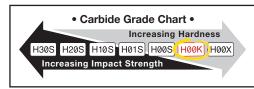


Alternate Top Bevel (ATB) tooth design produces splinter-free cuts

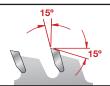


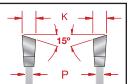
Presicion Tensioning with computercontrolled equipment keeps the blade flat and true while maximizing life and performance

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
TK406	10"	60 ATB	5/8"	.098	.071
TK407	12"	80 ATB	1"	.110	.071
TK408	14"	96 ATB	1"	.118	.087











Thin Kerf Laminate, Melamine & Laminate Flooring Blade









Ideal For Cutting Laminate, Melamine, MDF, Laminate Flooring And Any Hard Abrasive Man Made Material







This Thin Kerf Triple Chip Tooth Design is specially designed to cut laminate flooring (Pergo®, Armstrong®, SwiftLock®), double-sided laminates & melamine cleanly, leaving a smooth finish with no tear-out. The TiCo™ Carbide tips are an exclusive formulation manufactured by Freud that is extra hard and durable, and lasts longer by withstanding abrasive materials like laminates. The thin kerf design makes it easy to track a line as well as requires less power both from the user and the saw, making it ideal for portable table saws.





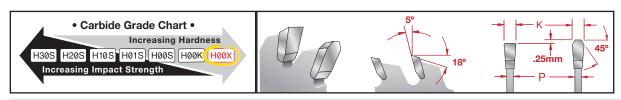
Triple Chip Grind (TCG) Tooth Design for clean, chip free and long life cuts

in abrasive materials such as laminates and laminate flooring



Extra Hard, Durable Carbide Formulation is the perfect mixture of cobalt, tungsten, and titanium designed to withstand abrasive materials such as laminates and laminate flooring

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
TK806L	10"	80 TCG	5/8"	.098	.071
TK807L	12"	96 TCG	1"	.110	.071













Thin Kerf Combination Blades



Combination Blade For All Materials On Table Saws

Recommended Use & Cut Quality



1/4" MIN.

Depth of Cut



If you're looking for a blade that does it all, this is the one. Each set of 5 teeth is separated by a large gullet. This large gullet provides the chip removal space required while ripping and the close grouping of teeth within the set provide the smaller bite size required when crosscutting. The Silver I.C.E.TM coating resist corrosion and buildup, and have 2 times more heat resistance and life than conventional uncoated blades. The thin kerf saw blade requires less cutting power from the user and the saw, allowing more control over the cut for safer operation.



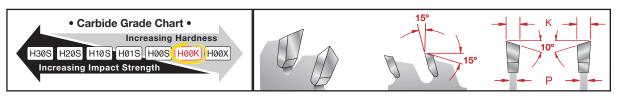
Large Gullets expel chips when ripping and allow for heat expansion



Classic Five Tooth Design helps ensure the blade will perform equally well in crosscutting and ripping

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
TK901	61/2"	30 COMB	5/8" <>	.094	.063
TK903	7"-71/4"	30 COMB	5/8" <>	.094	.063
TK904	8"-81/4"	36 COMB	5/8" <>	.094	.063
TK905	9"	40 COMB	5/8"	.098	.071
TK906	10"	50 COMB	5/8"	.098	.071

<> = Diamond Arbor





Thin Kerf General Purpose Blades







Features TiCo™ High **Density Carbide Combination Blend For Maximum Performance**











General Purpose For Cutting Natural & Manmade Materials

Recommended Use & Cut Quality RIPS WOOD: **CROSSCUTS WOOD: CHIP BOARD:** PLYWOOD: LAMINATE: **NON-FERROUS: CUT QUALITY:** (Not recommended for ferrous metals or masonry) Top Bar=6¹/₂"-8¹/₄" & Bottom Bar= 9"-12"

Depth of Cut



The advanced thin kerf design, using a specially designed, hardened blade body runs truer under load than many other saw blades running freely. Combined with razor sharp carbide teeth this blade cuts plywood and chipboard practically splinter-free as well as crosscutting and ripping hardwood and softwood. The Silver I.C.E.TM coating resist corrosion and build-up, and have 2 times more heat resistance and life than conventional uncoated blades.

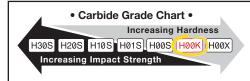


Extra Sharp Positive ATB Tooth Design gives an exceptionally long cutting life in ripping and crosscutting

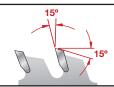


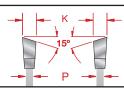
Special Carbide Formulation is the perfect mixture of cobalt, tungsten, and titanium designed to excel in both ripping and crosscutting applications

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
Finishing Blades					
TK301	61/2"	40 ATB	5/8" <>	.094	.063
TK303	7"-71/4"	40 ATB	5/8" <>	.094	.063
TK304	8"-81/4"	40 ATB	5/8" <>	.094	.063
General Purpose Black	des				
TK305	9"	40 ATB	5/8"	.098	.071
TK306	10"	40 ATB	5/8"	.098	.071
TK307	12"	44 ATB	1"	.098	.071
					<> = Diamond Arbor





















Thin Kerf Framing/Ripping Blades



Ripping And Fast Crosscutting

Recommended Use & Cut Quality

RIPS WOOD:

CROSSCUTS WOOD:

DECKING:
PLYWOOD:

LAMINATE:
NON-FERROUS:
Not Recommended

CUT QUALITY:
Fair
Good
Excellent
(Not recommended for ferrous metals or masonry)
Top Bar=61/2"-81/4" & Bottom Bar= 9"-10"



Depth of Cut



This blade cuts rough framing lumber, high quality finish lumber, plywood, OSB and hardboard siding with the smoothest, fastest, and most accurate cut. The Silver I.C.E.™ coating resists corrosion and build-up, and have 2 times more heat resistance and life than conventional uncoated blades. The thin kerf blade requires less cutting power from the user and the saw for better control over the cut. Heat-expansion slots help to prevent blade breakage by allowing it to expand during operation when friction-causing heat occurs.



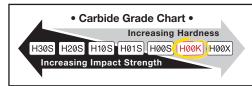
Kickback-Reducing Design restricts tooth bite and helps ensure a safer working environment



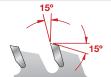
Thin Kerf cuts quickly and requires less power making it ideal for a wide range of stock on underpowered saws at the job site

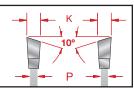
Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
TK201	61/2"	24 ATB	5/8" <>	.094	.063
TK203	7"-71/4"	24 ATB	5/8" <>	.068	.052
TK204	8"-81/4"	24 ATB	5/8" <>	.094	.063
TK205	9"	24 ATB	5/8"	.098	.071
TK206	10"	24 ATB	5/8"	.098	.071

<> = Diamond Arbor











Thin Kerf Non-Ferrous Metal/Plastic Cutting Blades











Application

Cutting Non-Ferrous Metals

Recommended Use & Cut Quality

Maximum Performance



Wall Thickness



Ideal blade for cutting non-ferrous metals such as copper, aluminum, brass, bronze, and lead. Also, ideal for cutting plastic materials such as pvc, vinyl, acrylic and polycarbonate.



Negative Hook Angle and Triple Chip Grind produce superior finish in nonferrous metals



Freud-Made TiCo™ Hi-Density
Carbide designed to cut nonferrous
metals extends tooth life

Silver ICE™	Dia.	Teeth	Arbor	Hook Angle(H)	Kerf(K)	Plate(P)
TK703	7"-71/4"	56 TCG	5/8" <>	-6°	.106	.087
TK706	10"	80 TCG	5/8"	-5°	.091	.071

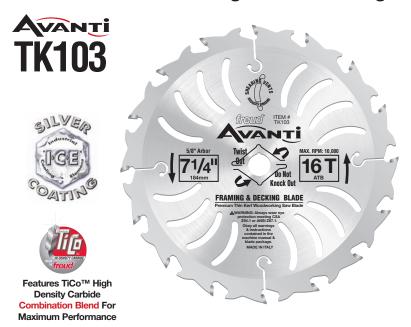
<> = Diamond Arbor







Thin Kerf Decking and Framing Blades



Heavy-Duty Decking And Framing

Application

Recommended Use & Cut Quality

RIPS WOOD:

CROSSCUTS WOOD:

DECKING:
PLYWOOD:
LAMINATE:
NON-FERROUS:
Not Recommended

CUT QUALITY: Fair Good Excellent
(Not recommended for ferrous metals or masonry)







This blade is excellent for providing smooth burn-free cuts in pressure treated decking lumber or other framing materials. The unique shear vent design allows for the blade to cut through thick stock wet lumber without binding. The Silver I.C.E.™ coating resist corrosion and build-up, and have 2 times more heat resistance and life than conventional uncoated blades. The 16 teeth on this blade allow for a fast cut while the anti-kickback design reduces the effects of kickbacks associated with overfeeding.

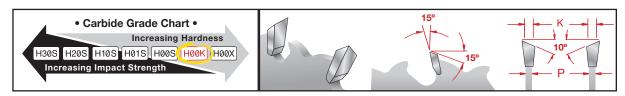


Shear Vent Design minimizes binding in extreme cutting applications



Kickback-Reducing Design restricts tooth bite and helps ensure a safer working environment

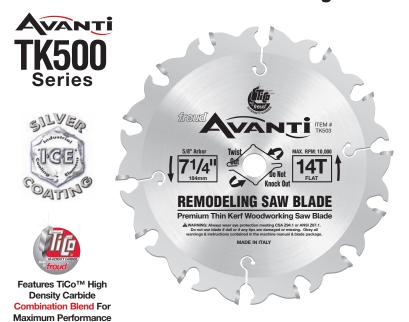
Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
TK103	7"-71/4"	16 ATB	5/8" <>	.068	.052
					<> - Diamond Arbor





Thin Kerf Remodeling Blades





Heavy-Duty Remodeling Blades Cut Through Nail-Embedded Material





Depth of Cut



The super strong shoulder design fully supports the carbide to help prevent failure when it comes in contact with hard-to-cut floor nails. The negative angle prevents the tooth from grabbing nails and breaking off. The negative hook angle also means the cross section of the carbide tip is thicker without losing the required 15° relief angle to prevent burning.



Negative Hook Angle teeth offer extreme durability in nail embedded wood

Large, Specially Designed Kickback-Reducing Shoulders provide controlled cutting in demolition applications

<> = Diamond Arbor

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
TK501	61/2"	12 FLAT	5/8" <>	.094	.063
TK503	7"-71/4"	14 FLAT	5/8" <>	.094	.063
TK504	8"-81/4"	18 FLAT	5/8" <>	.094	.063









Thin Kerf Trim Saw Blade







Density Carbide Combination Blend For Maximum Performance

Recommended Use & Cut Quality

(Not recommended for ferrous metals or masonry)



Trim Saw Blade For Porter-Cable® And Makita® Saws

Application RIPS WOOD: CROSSCUTS WOOD: CHIP BOARD: PLYWOOD: LAMINATE: NON-FERROUS: Not Recommended

CUT QUALITY: Fair



1 ⁵/8" MAX.

This carbide tipped trim blade is the perfect replacement blade for Porter Cable®, Makita® or similar trim saws. Heat-expansion slots help to prevent blade breakage by allowing it to expand during operation where frictioncausing heat may occur.



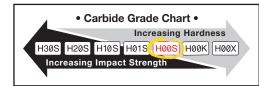
TiCo™ Hi-Density Carbide Tips with Titanium are durable and chemicalresistant for long life and razor-sharp cuts



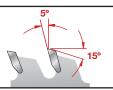
Laser-Cut Blade Body of high strength steel ensures that the blade will remain flat and true, even after years of use

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
TK001	43/8"	36 FLAT	20mm*	.067	.051

* Includes bushing to reduce bore to 3/8" Porter-Cable® is a Registered Trademark of Black & Decker® Makita® is a Registered Trademark of Makita Corporation











freud®

Thin Kerf Cordless Trim Saw Blades









Features TiCo™ High Density Carbide Crosscutting Blend For Maximum Performance

Trim Saw Blade For DEWALT® - And Other Trim Saws Extends Run Time





Depth of Cut



A thin kerf blade with a Silver I.C.E.™ coating is ideal for a cordless trim saw. The coating makes the blade resistant to friction and heat build-up. The thin kerf requires less cutting power allowing the blade to glide through the material. This design combination requires less power from the saw therefore extending the life of the battery. Use the TK002, TK003, and TK004 for the DeWALT® or other similar cordless circular saws.



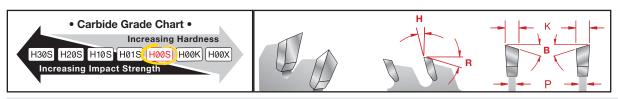
Silver I.C.E.™ Coating resists corrosion and build-up, and have 2 times more heat resistance and life than conventional uncoated blades



TiCo™ Hi-Density Carbide Tips are durable and chemical resistant for long life and razor-sharp cuts

Silver ICE™	Dia.	Teeth	Arbor	Hook Angle(H)	Relief Angle(R)	Bevel Angle(B)	Kerf (K)	Plate (P)
TK002	5-3/8"	16 ATB	10mm	20°	15°	15°	.059	.039
TK003	5-3/8"	24 ATB	10mm	15°	15°	25°	.067	.051
TK004	5-3/8"	30 ATB	10mm	2°	10°	15°	.059	.039

DEWALT® is a Registered Trademark of Black & Decker®









Thin Kerf Trim Saw Blades



Trim Saw Blades For Extending Run Time On Porter Cable® Saw Boss®

Recommended Use & Cut Quality RIPS WOOD: CROSSCUTS WOOD: CHIP BOARD: PLYWOOD: LAMINATE: NON-FERROUS: NOT Recommended (Not recommended for ferrous metals or masonry)

Top Bar=TK006, Bottom Bar= TK007



Depth of Cut



This small trim blade is designed to meet the specifications of the Porter Cable® Saw Boss®, and other similar trim saws while being manufactured to Freud's high tool standards. Heat-expansion slots help to prevent blade breakage by allowing it to expand during operation when friction-causing heat occurs. The anti-kickback design reduces the effects of kickbacks associated with overfeeding.



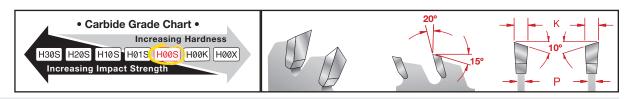
Thin Kerf requires less power, extending the battery life of cordless saws and motor life of corded saws



TiCo™ Hi-Density Carbide Tips with Titanium outlast high-speed steel blades that come standard with trim saws

Silver ICE™	Dia.	Teeth	Arbor	Kerf(K)	Plate(P)
TK006	6"	20 ATB	1/2"	.067	.051
TK007	6"	40 ATB	1/2"	.067	.051

Porter-Cable® and Saw Boss® are Registered Trademarks of Black & Decker®













Application

Dial-A-Width Stacked Dado Sets

SD600 Series





Features TiCo™ High Density Carbide Crosscutting Blend For Maximum Performance









Chip Free Dadoes In Veneered Plywoods and Laminates

Recommended Use & Cut Quality

HARDWOOD:
SOFTWOOD:
CHIP BOARD:
PLYWOOD:
LAMINATE:
NON-FERROUS:
Not Recommended

CUT QUALITY:
Fair Good Excellent

(Not recommended for ferrous metals or masonry)

The Dial-A-Width Dado set performs like a stacked dado, but we have replaced the shims with a patented dial system and with our exclusive Dial hub, ensures accurate adjustments. Each "click" of the dial adjusts the blade by .004". The Dial-A-Width dado set is easy to use, and very precise. For the serious woodworker, there's nothing better.

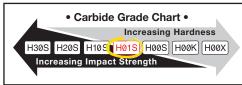
- Adjusts in .004" increments.
- Maximum 29/32" cut width.
- Adjusts easily to right or left operating machines.
- Set includes 2 outside blades, 5 chippers, wrench and carrying case.
- · Does not need shims.

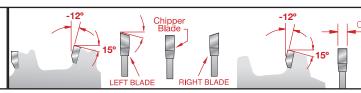
Set Includes:



Item	Dia.	Teeth	Arbor	Chippers(C)
SD606	6"	20	5/8"	(4)1/8", (1)3/32"
SD608	8"	24	5/8"	(4)1/8", (1)3/32"

Slot Width	No. Chippe 1/8	rs Required 3/32
1/4"	0	0
5/16"	0	0
3/8"	0	1
7/16"	1	0
1/2"	1	1
9/16"	2	0
5/8"	2	1
11/16"	3	0
3/4"	3	1
13/16"	4	0







Super Dado Sets

SD500 Series





Features TiCo™ High Density Carbide Crosscutting Blend For Maximum Performance





Freud's Dado Sets create clean edges, square shoulders & flat bottoms



Other Dado Sets leave splinters and uneven bottoms







Chip Free Dadoes In Veneered Plywoods And Lamninates

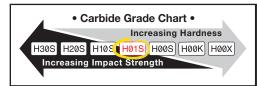


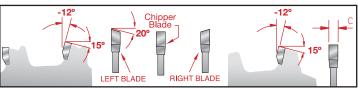
The SD500 Series of dado sets cuts everything from veneered plywoods and laminates to solid wood, chip and splinter-free with a super smooth, flat bottom. The SD500 Series dado sets were the first to include a 3/32" thick chipper and has the flexibility of an adjustable dado to handle today's undersized plywood. This allows the cut width to be adjusted in 1/32" increments and doubles the number of slot widths available. A shim set is also included with the dado set for fine adjustments. Use on all table saws, and radial arm saws for cutting slots, grooves, dadoes, and rabbets in softwood or hardwood.

Set Includes: 2 Blades Shim Set 6 Chippers Caution: Carbide tips should never come into contact with each other. Always use both outside blades and never use chippers alone or with just one outside blade.

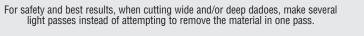
Item	Dia.	Teeth	Arbor	Chippers(C)
SD506	6"	20	5/8"	(4)1/8",(1)3/32",(1)1/16"
SD508	8"	24	5/8"	(4)1/8",(1)3/32",(1)1/16"

Slot Width	No. Chipp 1/8	oers Re	equired 3/32	
1/4"	0	0	0	
5/16"	0	0	0 1	
11/32"	0	1	0	
3/8"	1	0	0	
13/32"	0	1	1	
7/16"	1	0	1	
15/32"	1	1	0	
1/2"	2	0	0	
17/32"	1	1	1	
9/16"	2	0	1	
19/32"	2 2 3	1	0	
5/8"		0	0	
21/32"	2	1	1	
11/16"	2 3 3	0	1	
23/32"		1	0	
3/4"	4	0	0	
25/32"	3	1	1	
13/16"	4	0	1	
29/32"	4	1	1	

















Safety Dado Sets





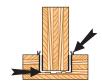


Features TiCo™ High Density Carbide Crosscutting Blend For Maximum Performance





Freud's Dado Sets create clean edges, square shoulders & flat bottoms



Other Dado Sets leave splinters and uneven bottoms

Safe And Splinter Free Dadoes

Recommended Use & Cut Quality HARDWOOD: SOFTWOOD: CHIP BOARD: PLYWOOD: LAMINATE: NON-FERROUS: NON-FERROUS: Not Recommended CUT QUALITY: Fair Good Excellent

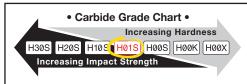
(Not recommended for ferrous metals or masonry)

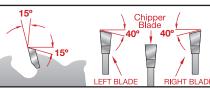
Freud's Safety Dado Sets provide the highest quality results while maintaining a superior level of safety. This stacked dado set with its razor sharp outside blades will produce grooves or rabbets which are flat-bottomed and virtually splinter-free in solid woods. Stacked dado sets are more precise than other styles and with the use of Freud's Shim Set the kerf width can be adjusted by as little as .004" for the correct fit. Use on all table saws, and radial arm saws for cutting slots, grooves, dadoes, and rabbets in softwood or hardwood.

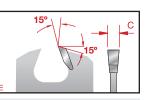


Item	Dia.	Teeth	Arbor	Chippers(C)
SD306	6"	18	5/8"	(4)1/8", (1)1/16"
SD308	8"	22	5/8"	(4)1/8", (1)1/16"
SD408	8"	40	5/8"	(4)1/8", (1)1/16"
SD310	10"	34	1"	(4)1/8", (1)1/16"
SD312	12"	34	1"	(4)1/8", (1)1/16"

Slot Width	No. Chippe 1/8	rs Required 1/16
1/4"	0	0
5/16"	0	1
3/8"	1	0
7/16"	1	1
1/2"	2	0
9/16"	2	1
5/8"	3	0
11/16"	3	1
3/4"	4	0
13/16"	4	1









Pro Dado Set

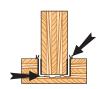
SD200 Series





Freud's Dado Sets create clean edges, square shoulders & flat bottoms





Other Dado Sets leave splinters and uneven bottoms



Features TiCo™ High Density Carbide Crosscutting Blend For Maximum Performance

A Stacked Dado For Flat Bottom Grooves and Virtually Splinter-Free Cuts

Recommended Use & Cut Quality HARDWOOD: SOFTWOOD: CHIP BOARD: PLYWOOD: LAMINATE: NON-FERROUS: Not Recommended CUT QUALITY: Fair Good Excellent

(Not recommended for ferrous metals or masonry)

Freud's quality and craftsmanship in a stacked dado set, but at a wobble dado price! The negative hook angles make flat bottom grooves and virtually splinter-free cuts. It has two outside blades with five two wing chippers. This makes it ideal for underpowered saws because it requires less power to feed. All blades and chippers come with Freud's anti-kickback design. This resharpenable set will produce grooves from 1/4" to 13/16" in 1/16" increments. This dado set comes with a shim set and carrying case as well as instructions on how to make basic dado sizes.

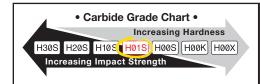
halios

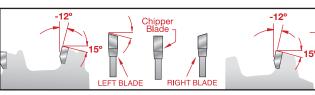
Set Includes:



Item	Dia.	Teeth	Arbor	Chippers(C)
SD206	6"	10	5/8"	(4)1/8", (1)1/16"
SD208	8"	12	5/8"	(4)1/8", (1)1/16"

Slot Width	No. Chippe 1/8	rs Required 3/32
1/4"	0	0
5/16"	0	1
3/8"	1	0
7/16"	1	1
1/2"	2	0
9/16"	2	1
5/8"	3	0
11/16"	3	1
3/4"	4	0
13/16"	4	1













Box Joint Cutter Set

SBOX8 **Series**









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

Features TiCo™ High **Density Carbide Crosscutting Blend For Maximum Performance**

Use On All Table Saws for Cutting Grooves to Create Box Joints in Softwood or Hardwood



Freud has developed a method of creating perfectly square, flat-bottom box joints, on a table saw without using a dado set or saw blade. The SBOX8 Box Joint Cutter Set makes box joint construction easy, producing strong, accurate joints without shims or awkward adjustments. This patent pending innovation enables users to produce perfectly square, precise box joints quickly and cleanly the very first time—and every time. Includes instructions for making box joints and building a box joint jig.

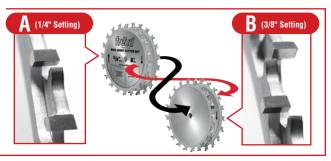
Set Includes:



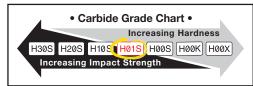
come into contact with each of Always use both outside blades

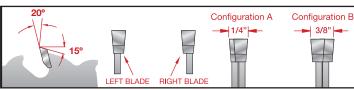
How It Works:

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



Item	Dia.	Teeth	Arbor	Hook Angle	Width of Cut
SBOX8	8"	20	5/8"	20°	1/4" Groove & 3/8" Groove







Dado Chipper Set-Up & Configuration Guide

Symbol Key

Outer Blades

- ◆ Chipper
- ♦ Chipper
- O Shim

These charts explain how to set up your dado cutters to achieve your desired width of cut. Complete set-up instructions, safety information and technical specifications are contained in the manual that comes in the dado set.

For ultimate precision and cut quality, this unique stacked dado system allows for quick and easy adjustments without the use of shims-giving flawless flat bottom cuts in hardwoods, softwoods, veneered plywoods and laminates. This chart is applicable for the SD606 and the SD608 Dial-A-Width dado sets.

Set-U	p Fo	or S	D60	0 Se	eries	Dia	al-A	-Wic	ith [Dad	o Se	ts -	Cut	ts D	ado	es F	rom	1 7/3	32" t	to 29	9/32	II	
Cut Width ➡	⁷ /32"	1/4"	9/32"	5/16"	11/32"	3/8"	13/32"	⁷ /16"	15/32"	1/2"	17/32"	9/16"	19/32"	5/8"	21/ ₃₂ "	11/16"	23/ ₃₂ "	3/4"	25/ ₃₂ "	¹³ /16"	²⁷ /32"	7/8"	29/32"
Left Outside Blade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0
Right Outside Blade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/32" Chipper	_	-	-	-	+	+	-	-	+	+	-	-	+	+	-	-	+	+	-	-	+	+	+
1/8" Chipper	-	-	_	_	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
1/8" Chipper	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+
1/8" Chipper	_	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+
1/8" Chipper	-	-	-	-	-	-	-	-	-	ı	-	-	-	-	-	-	-	-	+	+	+	+	+
*Number of Clicks	1	9	16	25	8	16	15	22	8	16	15	22	8	16	15	22	8	16	15	22	8	15	22

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

The SD500 Super Dado series is available in 6"(SD506) and 8"(SD508). This series gives flawless flat bottom grooves with virtually splinterfree cuts in hardwoods, softwoods, veneered plywoods and laminates. This chart is applicable for the SD506 and the SD508 dado sets.

	Se	et-U	p Fo	or Si	D500) Se	ries	Da	do S	Sets	- C	uts	Dad	oes	Fro	m 1	/4"	to 2	9/32				
Cut Width ➡	⁷ /32 ^{II}	1/4"	9/32"	5/16 ^{II}	11/32"	3/8"	13/ ₃₂ "	⁷ /16"	15/32"	1/2"	17/32"	9/16"	19/32"	5/8"	21/ ₃₂ "	^{11/} 16"	23/ ₃₂ "	3/4"	25/32"	¹³ /16"	²⁷ /32"	7/8"	29/32"
Left Outside Blade	N/A	0	0	0	٥	٥	0	0	0	٥	٥	٥	٥	٥	0	0	0	٥	٥	0	0	٥	0
Right Outside Blade	N/A	0	0	0	٥	٥	0	0	0	٥	٥	٥	٥	٥	0	0	0	٥	0	0	0	٥	0
1/16" Chipper	N/A	_	-	+	-	-	+	+	-	-	+	+	-	-	+	+	-	-	+	+	-	-	+
3/32" Chipper	N/A	_	-	-	+	_	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	+	+
1/8" Chipper	N/A	_	-	-	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
1/8" Chipper	N/A	_	-	-	-	-	-	-	_	+	_	+	+	+	+	+	+	+	+	+	+	+	+
1/8" Chipper	N/A	_	-	-	-	-	-	-	-	-	-	-	-	+	-	+	+	+	+	+	+	+	+
1/8" Chipper	N/A	_	-	-	-	-	-	-	_	-	_	-	ı	-	-	-	_	+	_	+	+	+	+
0.020" (0.5mm) Shim	N/A	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	0	_
0.012" (0.3mm) Shim	N/A	_	0	_	-	-	_	_	_	-	_	-	1	-	_	_	_	-	_	_	_	0	_
0.008" (0.2mm) Shim	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
0.004" (0.1mm) Shim	N/A	-	_	-	_	-	-	_	_	-	-	-	-	-	-	_	_	-	-	_	_	-	-

The SD300 series gives superb cuts in softwoods & hardwoods. Available in 6"(SD306), 8"(SD308), 10"(SD310), & 12"(SD312). The SD200 series gives great performance at a great price. Available in 6"(SD206) & 8"(SD208). Cuts; hardwoods, softwoods, chipboard, plywood, & laminates. This chart is applicable for the SD306, SD308, SD310, SD312, SD206, & SD208 dado sets.

S	et-U	p F	or S	D30	0 &	SD2	200 \$	Seri	es C	ado	Se	ts -	Cut	s Da	adoe	es F	rom	1/4	l" to	7/8	11		
Cut Width ➡	7/32"	1/4"	9/32"	5/16 ^{II}	11/32"	3/8"	13/32"	7/16"	15/32"	1/2"	17/32"	9/16"	19/32"	5/8"	21/32"	11/16"	23/32"	3/4"	25/32 ^{II}	13/16"	27/32"	7/8 ^{II}	29/32 ^{II}
Left Outside Blade	N/A	٥	0	0	٥	0	0	0	٥	٥	0	0	٥	٥	0	0	٥	٥	0	O	0	٥	N/A
Right Outside Blade	N/A	٥	0	0	0	٥	0	0	0	٥	0	0	0	٥	0	0	0	٥	0	O	0	٥	N/A
1/16" Chipper	N/A	-	-	*	*	-	-	+	*	-	-	*	*	-	-	*	*	-	-	*	*	•	N/A
1/8" Chipper	N/A	-	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	N/A
1/8" Chipper	N/A	_	-	-	-	_	_	-	_	*	*	*	*	*	*	*	*	*	*	*	*	*	N/A
1/8" Chipper	N/A	-	-	-	-	-	-	-	-	-	_	-	-	*	*	*	•	*	*	*	•	•	N/A
1/8" Chipper	N/A	_	-	_	-	-	-	-	-	-	_	_	-	-	-	_	-	*	*	*	•	*	N/A
0.020" (0.5mm) Shim	N/A	_	0	-	0	_	0	-	0	_	0	-	0	-	0	-	0	-	0	_	0	0	N/A
0.012" (0.3mm) Shim	N/A	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	0	N/A
0.008" (0.2mm) Shim	N/A	_	_	_	-	-	_	-	_	-		_	_	-	_	_	-	-	-	_	_	0	N/A
0.004" (0.1mm) Shim	N/A	-	_	-	-	_	-	-	_	-	_	-	_	-	_	-	-	-	-	-	-	0	N/A



Dado Replacement Parts & Shim Sets



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

Use on all table saws, and radial arm saws for cutting slots, grooves, dadoes, and rabbets in softwood or hardwood

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

	Precision Shim Sets Outside Number of Each Thickness											
Item	Arbor	Dia.	.004	.008	.012	.020						
SS100	5/8"	3-5/32"	4	2	2	2						
SS200	1"	3-5/32"	4	2	2	2						

Chippers					
Item	For	Dia.	Teeth	Arbor	Thickness
SD206C16	SD206	6"	2	5/8"	1/16"
SD206C18	SD206	6"	2	5/8"	1/8"
SD208C16	SD208	8"	2	5/8"	1/16"
SD208C18	SD208	8"	2	5/8"	1/8"
SDIC0616	SD306	6"	2	5/8"	1/16"
SDIC0618	SD306	6"	2	5/8"	1/8"
SDIC0816	SD308	8"	2	5/8"	1/16"
SDIC0818	SD308	8"	2	5/8"	1/8"
SDIC1016	SD310	10"	2	1"	1/16"
SDIC1018	SD310	10"	2	1"	1/8"
SDIC1216	SD312	12"	2	1"	1/16"
SDIC1218	SD312	12"	2	1"	1/8"
SD506C16	SD506	6"	4	5/8"	1/16"
SD506C332	SD506	6"	4	5/8"	3/32"
SD506C18	SD506	6"	4	5/8"	1/8"
SD508C16	SD508	8"	4	5/8"	1/16"
SD508C332	SD508	8"	4	5/8"	3/32"
SD508C18	SD508	8"	4	5/8"	1/8"
SD606C18	SD606	6"	4	5/8"	1/8"
SD606C332	SD606	8"	4	5/8"	3/32"
SD608C18	SD608	8"	4	5/8"	1/8"
SD608C332	SD608	8"	4	5/8"	3/32"

Replaceme	Replacement Parts For SD606 & SD608 Series										
SD600SP	Spring hub assembly brearing & screws										
SD600BB	Ball bearing for hub assembly										
SD600HUB	Dial hub										
SD600FLG	Flange for blade assembly										
SD600BTI	Threaded insert for flange										
SD600ISC1	Screws for threaded insert										
SD600FSC	Screws for flange										

Oustside I					
Item	For	Dia.	Teeth	Arbor	 Orientation
SD206OLH	SD206	6"	2	5/8"	Left Side
SD206ORH	SD206	6"	2	5/8"	Right Side
SD208OLH	SD208	8"	2	5/8"	Left Side
SD208ORH	SD208	8"	2	5/8"	Right Side
SDOS06LH	SD306	6"	24	5/8"	Left Side
SDOS06RH	SD306	6"	24	5/8"	Right Side
SDOS08LH	SD308	8"	24	5/8"	Left Side
SDOS08RH	SD308	8"	24	5/8"	Right Side
SDOS10LH	SD310	10"	36	1"	Left Side
SDOS10RH	SD310	10"	36	1"	Right Side
SDOS12LH	SD312	12"	36	1"	Left Side
SDOS12RH	SD312	12"	36	1"	Right Side
SD506OLH	SD506	6"	24	5/8"	Left Side
SD506ORH	SD506	6"	24	5/8"	Right Side
SD508OLH	SD508	8"	24	5/8"	Left Side
SD508ORH	SD508	8"	24	5/8"	Right Side
SD606OLH	SD606	6"	24	5/8"	Left Side
SD606ORH	SD606	6"	24	5/8"	Right Side
SD608OLH	SD608	8"	24	5/8"	Left Side
SD608ORH	SD608	8"	24	5/8"	Rigth Side

Calibration & Sanding Disks











For Sanding and Accurately Aligning Your Saw For Optimal Performance

These Calibration and Sanding Disks are a real time saver for aligning a saw. They are precision ground extra thick for absolute balance and flatness. Simply mount the disk onto the saw and align the disk with a square. Because there are no teeth to get in the way, it will produce a more accurate reading. Then simply remove the disk and mount your blade. Freud Disks will also turn your table saw into a disk sander. Simply mount any

8"

10"

CD008

CD010

of the adhesive backed Freud Sanding Disks (4 popular grits available) onto the Freud Calibration and Sanding Disk and use as a disk sander. Sanding time will be cut down to practically nothing. These disks will save you time and money.

Application: Use on any table saw, radial arm saw or miter saw.

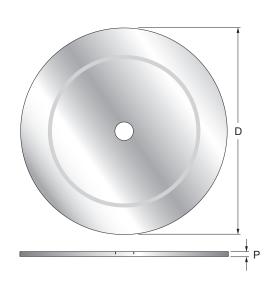
Item #	Diameter(D)	Plate(P)	Bore	1177

5/8"

5/8"

1/8"

1/8"



















Application

Adhesive Sanding Disks & Abrasive Cleaning Stick



Strong Durable Sanding Disks For Use With Freud's Calibration & Sanding Disk

Freud's Sanding Disks are an industrial grade perfect for the professional or home woodshop. Backed with premium 100% cotton means these disks won't disintegrate like typical off-the-shelf sandpaper. Industrial aluminum oxide is specially formulated for disk sanding, so that these disks will last through even your toughest project. Freud Sanding Disks are available in 80, 120, 150, and 180 grit and are also sold in combination packs. To use, peel off backing and carefully align disk before pressing into place. If, after heavy use, the disks get clogged with saw dust, Freud's Abrasive Cleaning Stick will restore sanding again in no time. Made from a

special grade of rubber, Freud's Cleaning Sticks clean quickly and efficiently, and will last through a multitude of projects. Simply hold the Cleaning Stick firmly against the clogged disk until all loaded particles have been removed. Disk should be running at its normal operating speed.

Application: Use Sanding Disks on any table saw, radial arm saw or miter saw with Freud's Calibration and Sanding Disks. Clean with Freud's Abrasive Cleaning Stick

Sanding Disks

Item #	Diameter	Grit	Bore	Quantity
D080	8"	80 grit	5/8"	5 per package
D08120	8"	120 grit	5/8"	5 per package
D08150	8"	150 grit	5/8"	5 per package
D08180	8"	180 grit	5/8"	5 per package
D1008	10"	80 grit	5/8"	5 per package
D10120	10"	120 grit	5/8"	5 per package
D10150	10"	150 grit	5/8"	5 per package
D10180	10"	180 grit	5/8"	5 per package
DOOVVV O	l Canabination	Dealcasat	-i E	la af.

D08XXX 8" Combination Pack contains 5 each of:

80 grit, 120 grit, 150 grit.

D10XXX 10" Combination Pack contains 5 each of:

80 grit, 120 grit, 150 grit

Cleaning Stick

Item #	Description	Quantity
AC12	Abrasive Cleaning Stick 2" x 2" x 12"	1 per package



How to Choose Your Grade: (8" or 10" disks) Coarse 80 grit

120 grit

150 grit

180 grit

Medium

Extra Fine

Fine

Application

Blade Stabilizers & Stiffeners

For Maximum Saw Blade **Performance On Stationary Saws**

When making a high precision cut, any amount of rim vibration can mean the difference between a masterpiece and scrap. These sets of saw blade stabilizers are precision machined and balanced to give an added amount of stability. Freud Stabilizer sets not only improve the cut, but make the saw cut quieter, and extend it's cutting life between sharpenings. These Stabilizer sets can be used on blades 7" diameter, and larger. Stabilizers should only be used on stationary saws and should never be used on hand held portable saws.

SC Series Stabilizer Sets (2 pieces)

Item #	Arbor(A)	Dia.(D)	Thickness(T)
SC-001	5/8"	3-1/2"	9/32"
SC-002	1"	3-1/2"	9/32"

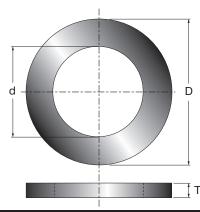


Freud's stiffeners reduce saw blade deflection for a straighter, truer cut. These stiffeners are precision machined from rigid steel

CDS Series Stiffeners

Item #	Dia.(D)	Bore	Usage
CDS001	4"	5/8"	Use with Blade 10" and smaller
CDS002	5"	5/8"	Use with Blade 10" and larger

Saw Blade Bushings



For Reduction In Blade Arbor Size

These precision bushings are designed for reducing the arbor size of Freud and other manufacturers saw blades.

s Gauge	Item Number			Thicknes Inch(T)	
18	BI 71MDA9	3/4"	7/8"	080	14

Item	Inside	Outside	Thicknes	s	Item	Inside	Outside	Thicknes	s
Number	Dia.(d)	Dia.(D)	Inch(T)	Gauge	Number	Dia.(d)	Dia.(D)	Inch(T)	Gauge
BL10M2009	5 3/8"	20mm	.048	18	BL71MDA9	3/4"	7/8"	.080	14
BL71MAA9	3/8"	1/2"	.048	18	BL71MDB9	3/4"	1"	.080	14
BL71MBA9	1/2"	5/8"	.056	17	BL71MDC9	3/4"	1-1/8"	.104	12
BL71MBB9	1/2"	3/4"	.056	17	BL71MEA9	7/8"	1"	.080	14
BL71MBC9	1/2"	13/16"	.056	17	BL71M FA9	1"	1-1/8"	.092	13
BL71MBD9	1/2"	7/8"	.064	16	BL71M FB9	1"	1-1/4"	.104	12
BL71MBE9	1/2"	1"	.080	14	BL71MFC9	1"	1-3/8"	.104	12
BL71MBF9	1/2"	1-1/8"	.080	14	BL71M FD9	1"	1-1/2"	.116	11
BL71MCA9	5/8"	<>SKIL	.056	17	BL71M FE9	1"	1-3/4"	.128	10
BL71MCB9	5/8"	3/4"	.056	17	BL71MGW9	5/8"	20mm	.064	16
BL71MCC9	5/8"	13/16"	.056	17	BL71MHA9	25mm	30mm	.092	13
BL71MCD9	5/8"	7/8"	.064	16	BL71MIA9	1"	30mm	.092	13
BL71MCE9	5/8"	1"	.080	14	BL71MLA9	5/8"	30mm	.092	13
BL71MCF9	5/8"	1-1/4"	.092	13	BL71MNA9	20mm	1"	.080	14



Router Bits

Serious woodworkers choose serious accessories. They choose Freud. An industry leader for over 50 years, the Freud name equals quality, precision and craftsmanship. Freud router bits feature Freud made TiCo™ Hi-**Density Carbide for** maximum cutting life. And Freud bits are individually balanced, giving a cut above the rest. So when you're looking for a serious router bit, look for the Freud red.

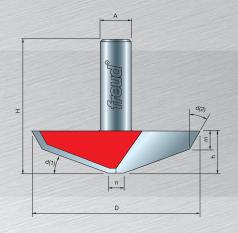


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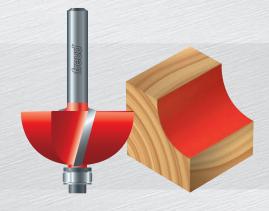
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Balanced Design

Features & Benefits

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Industrial Router Bits

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Anti-Kickback Limitor

The projection at the front of the gullet which limits the maximum tooth bite to the safe limit for the bit design reducing the effects of kickback.

Brazing

The method used to attach the carbide tips to the bit body. Both the carbide tip and the body are heated above the melting point of the silver layers of the brazing foil forming a strong bond between the parts.

Gullet

The cut out area in the body in front of each carbide tip for chip removal.

Hook Angle

The angle the face of the carbide tip makes with a line projecting radially from the center of the shank.

Relief Angle

The angle the tip of the carbide tooth makes away from the cutting edge to a line tangent to the bit circumference.

Shear Angle

The angle that the cutting edge makes with a line parallel to the shank of the bit.

Shank

The precision ground, cylindrical part of the bit that is held in the router collet.

Solid Carbide Bit

A router bit formed entirely of carbide, including the shank, body and cutting edge. Found primarily in small diameter and spiral router bits.

Pilot Bearing

The part of the bit designed to guide the bit and control the depth of cut. Often used to rout the edges of irregularly shaped objects and for following templates.

Rail And Stile (Cope And Stick) Bits

Used to produce frames for panel doors. The stile or stick cut refers to the profiled inner edge of the frame and either a groove to accept a panel or a rabbet for glass. The rail or cope cut is the mating glue joint produced on the ends of the rails.

Round Nose (Core Box) Bits

End cutting bits that will plunge cut and produce decorative, fluted grooves.

Flush Trim (Pattern) Bits

Straight cutting bits that include a pilot bearing that is the same diameter as the cutter. Often used for laminate work and template routing.

Spiral Bits

Router Bits: Technical Information

Glossary Of Terms

Special straight cutting bits that are formed with helical flutes for more efficient chip ejection. The helical shape of the flutes also results in shear angles that produce a smoother surface finish.

Compression Bits

Straight cutting bits that combine both down shear angles and up shear angles for excellent finish on both the top and bottom of the cut.

Raised Panel Bits

Produce a decorative profile on the edge of a wood panel while reducing the edge thickness to fit into the groove of a stile and rail frame.

Back Cutters

Secondary cutters used in combination with raised panel bits to create double-sided panels that are in the same plane with both the front and back of the stile and rail frame.

Key Router Bit Dimensions

A- Shank Diameter

B- Bearing Diameter

C- Cutting Depth

D- Overall Diameter

H- Overall Height

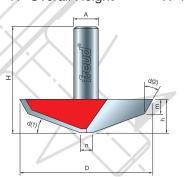
h- Carbide Height

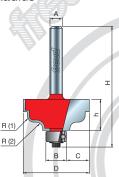
m- Minor Height

n- Small Diameter

d- Angle

R- Radius





SUGGESTED ROUTER SPEEDS

CUTTING	MAXIMUM R.P.M.		
U	р То	1" (25.4 mm)	24,000
1" (25.4 mm)	То	1-1/4" (31.75 mm)	18,000
1-1/4" (31.75 mm)	То	2-1/4" (57.15 mm)	16,000
2-1/4" (57.15 mm)	То	3-1/2" (88.9 mm)	12,000

IMPORTANT NOTE: Do not exceed the maximum speed marked on the tool

Router Bits: Technical Information

Freud has a complete range of bits that offer high quality, long working life and less friction when cutting.

Cut Quality Testing

A router bit's performance depends on two main factors: it's cutting quality and it's life span. We performed comparison tests on Freud router bits, with particular focus on cutting life and finish.

Straight router bits with identical dimensions (cutting diameter 1/2", shank diameter 1/2", 2 flute) were mounted on a CNC router. We then routered a number of 1/4" deep grooves on a chipboard-melamine coated panel.

The final evaluation was based on the number of chips on the melamine coating and averaging the first and the last 33 routed feet.

Initially, all router bits performed in a similar way but as the number of routed feet increased, Freud router bits performed superior to the other bits (please refer to the graphically represented test results below for more details and information).

Freud has a complete range of bits that offer high quality, long working life and less friction when cutting.

Perma-SHIELD® Coating

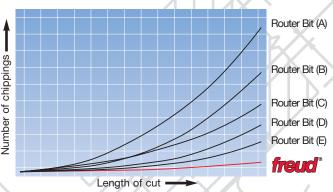
Each bit features high grade steel, TiCo™ Hi-Density Carbide Tips, and the exclusive red Perma-SHIELD® coating. Perma-SHIELD® coating reduces friction and heat build up, helps prevent the adhesion of resins, and protects the bit from corrosion.



Computer Designed Hook Angles

The accuracy of the hook angle ensures that the bit can provide a top cutting finish whereas the peculiar inclination of the clearance angle on the tip's bottom allows easy and precise boring.





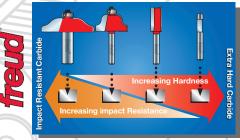




freud Router Bit (B) Router Bit Router Bit (D) Router Bit

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Freud—Router Bits Features And Benefits



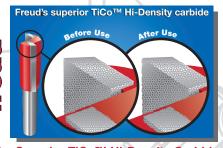
Unique Carbide Formulations for Each Application Maximize Finish & Life

Using the correct carbide formulation for each application is extremely important when it comes to maximizing a router bit's performance. For example, an extremely hard carbide formulation is required to maintain a sharp edge when cutting laminates. Alternately, a softer carbide or impact-resistant carbide is ideal for large profile cutting such as Panel Bits.



Others Use The Same Carbide For All Applications

Most manufacturers create router bits with standard off-the-shelf carbide, which is not specifically designed for wood cutting applications. These carbides will not be able to maintain the proper tooth geometry or sharp edge. After a few hours of use, these standard carbides might not show imperfections; however, without the proper carbide formulation, material finish and cutting life will suffer.



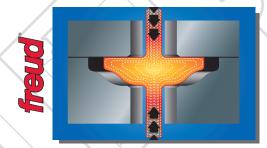
Superior TiCo™ Hi-Density Carbide Provides Longer Cutting Life Freud's premium quality TiCo™ hi-

density carbide allows for a sharper edge that gives a better finish with a dramatically longer cutting life. And, since the grains are much smaller and more dense there is not as dramatic a loss to the cutting edge, so wear occurs much more slowly.



Standard Off-The-Shelf Carbide

Most manufacturers create router bits with standard off-the-shelf carbide, which is normally formulated for metal cutting. These carbides will not be able to maintain the proper sharp edge. After a few cuts, these standard carbides might not show imperfections; however, without the proper carbide formulation, material finish and cutting life will suffer.



Heat-Forged Design for Superior Strength

To create a strong, large diameter router bit, Freud uses a heat-forged manufacturing process. During this process, a high grade steel bar is heated up, forged to the desired shape, then turned down to a precise router bit body. This method produces a radial grain orientation to ensure maximum strength and durability. (This heatforged process is known for producing high-strength components that require exceptionally high quality standards, such as automobile crank shafts).



Others Use Inferior Manufacturing Techniques

Most manufacturers employ techniques on their large diameter router bits such as turning down cold steel or die casting. These methods produce weaker, less durable router bits that are prone to breakage.

Freud—Router Bits Features And Benefits



Kickback-Reducing Design Promotes Safety Kickbacks are one of the most dangerous hazards in woodworking. This happens so quickly that it can be impossible to react before injury occurs. Freud's kickback-reducing shoulder design restricts the tooth bite to 1.1 mm., reducing the effects of kickback from overfeeding. This design contributes to a safer working environment.

Standard Oncontrolled Gut

Standard Router Bit Designs Are Prone To Dangerous Kick-Backs

Standard router bit designs do not include a kickback reducing shoulder. The bits do not have extra support behind the cutting flute. This limitation allows the bit to take large bites out of the material and produces uncontrolled, rough cuts particularly when operating at lower speeds.



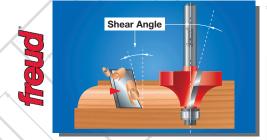
Computer Balancing Prevents Chattering And Vibration

All Freud router bits are computer balanced to ensure vibration-free cuts. The balancing takes place on special computer-controlled equipment that determines the exact location where material needs to be removed. After material removal, the equipment rechecks the router bit to ensure the bit is perfectly balanced.



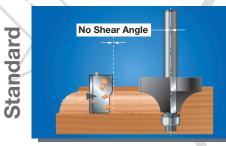
Unbalanced Router Bits Cause Chattering And Vibration

A router bit that is even slightly out of balance will vibrate and chatter while cutting, and it can be extremely dangerous if it is far out of balance. An unbalanced router bit can also create unnecessary rework costing quality of work, time and money.



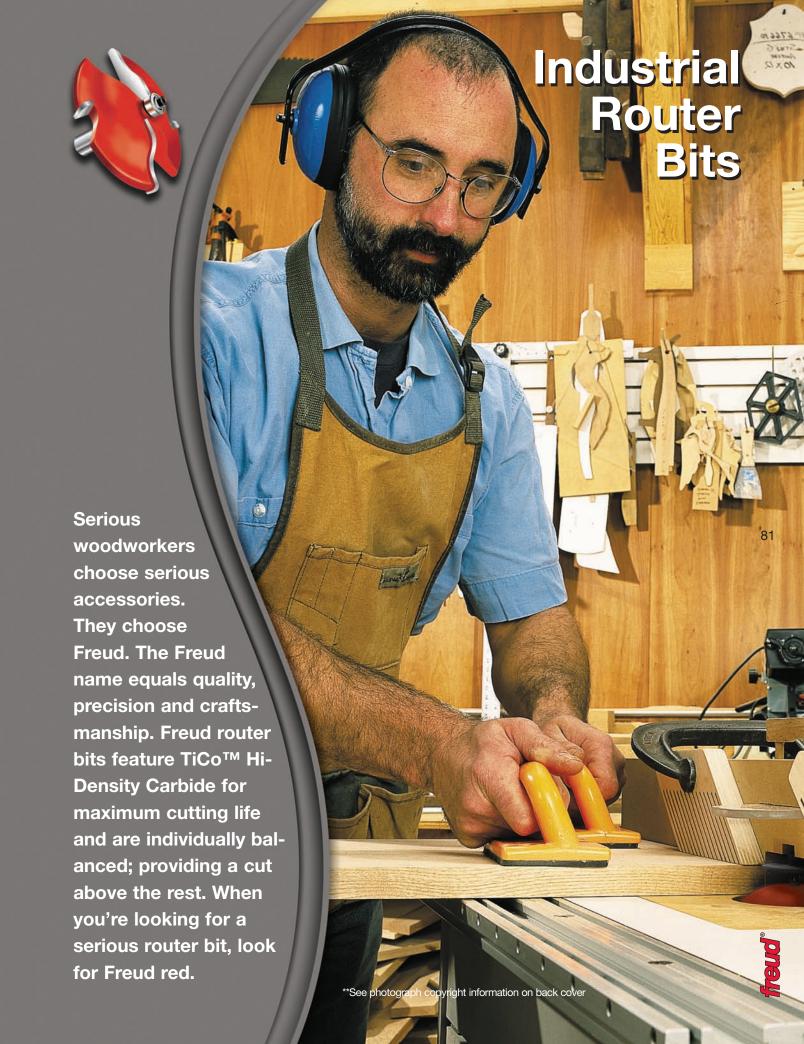
Shear Angle Design Produces Superior Finish

The shear angle is the angle that the cutting edge makes with the shank of the bit. Freud carbide tips are angled to slice through the wood fibers similar in principle to using a hand plane at an angle to the direction of the motion. This slicing action becomes even more important when cutting across the grain. Freud's high shear angle bits leave a cross grain cut that requires virtually no sanding.



Standard Router Bits Have Little Or No Shear Angle

Bits without shear or with too little shear chop the wood and are more likely to produce tearout and chatter marks. In addition, not having the proper shear angle causes premature wearing of the carbide and puts more strain on the router.









Double Flute Straight Bits

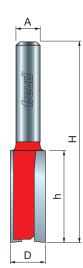
Application: General stock removal with a smooth finish

- Freud straight bits cut smoother than other bits because of the precise shear and hook angles. End of bit relief allows for fast plunging.
- Cuts all composite materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

portable route	513.			
Item Number	Overall Dia.(D)	Carbide Height(h)	Shank Dia.(A)	Overall Length(H
04-096*	1/16"	1/4"	1/4"	1-5/8"
04-098*	3/32"	3/8"	1/4"	1-5/16"
04-100*	1/8"	3/8"	1/4"	1-3/4"
04-101*	5/32"	5/8"	1/4"	1-1/2"
04-102*	3/16"	1/2"	1/4"	2"
04-103*	3/16"	5/8"	1/4"	2"
04-104*	1/4"	1/2"	1/4"	2"
04-105*	1/4"	5/8"	1/4"	2"
04-106*	1/4"	3/4"	1/4"	2-1/4"
04-107*	1/4"	7/8"	1/4"	2-1/4"
04-108*	1/4"	1"	1/4"	2-1/2"
04-109*	1/4"	7/8"	1/4"	2-7/8"
04-110*	1/4"	1"	1/4"	2-7/8"
04-112	9/32"	1"	1/4"	2"
04-118	5/16"	1"	1/4"	2-1/2"
04-120	3/8"	7/8"	1/4"	1-7/8"
04-124	3/8"	1"	1/4"	2-1/2"
04-126	3/8"	1-1/4"	1/4"	2-11/16"
04-129	7/16"	1"	1/4"	2-1/2"
04-130	1/2"	3/4"	1/4"	2-1/4"
04-131	1/2"	7/8"	1/4"	1-7/8"
04-132	1/2"	1"	1/4"	2-1/8"
04-132	1/2"	1-1/4"	1/4"	2-3/4"
04-134	9/16"	3/4"	1/4"	2-1/8"
04-134	5/8"	3/4"	1/4"	
				2-1/8"
04-137	5/8"	1-1/4"	1/4"	2-3/4"
04-138	11/16"	3/4"	1/4"	2-1/8"
04-140	3/4"	3/4"	1/4"	2-1/8"
04-144	1-3/16"	3/4"	1/4"	2"
04-148	7/8"	3/4"	1/4"	2"
04-152	1"	3/4"	1/4"	2"
04-156	1"	1-1/8"	1/4"	2-9/16"
08-106	1/4"	3/4"	3/8"	2"
08-124	3/8"	1"	3/8"	2-1/4"
08-132	1/2"	1"	3/8"	2-1/2"
08-136	5/8"	1"	3/8"	2-1/4"
08-152	3/4"	1"	3/8"	2-1/4"
08-166	7/8"	1"	3/8"	2-1/4"
12-096	15/642"	3/4"	1/2"	2-13/32"
12-100	1/4"	3/4"	1/2"	2-3/8"
12-102	1/4"	7/8"	1/2"	2-7/8"
12-106	5/16"	1"	1/2"	2-3/4"
12-108	3/8"	1"	1/2"	2-5/8"
12-110	3/8"	1-1/4"	1/2"	2-7/8"
12-112**	13/32"	1"	1/2"	2-5/8"
12-113	7/16"	1-1/4"	1/2"	3-1/4"
12-115	7/8"	1-1/4"	1/2"	2-3/4"
12-116	1/2"	1"	1/2"	2-5/8"
12-118	1/2"	1-1/4"	1/2"	2-7/8"
12-122	1/2"	1-1/2"	1/2"	3-1/8"
12-124	1/2"	1-1/2"	1/2"	4-1/4"
12-128	1/2"	2"	1/2"	4-1/8"
12-130	1/2"	2-1/2"	1/2"	4-3/8"
12-134	9/16"	1-1/4"	1/2"	2-7/8"
12-134	5/8"	1"	1/2"	2-1/2"
12-138	5/8"	1-1/4"	1/2"	2-1/2"
12-130	5/8"	1-1/4"	1/2"	3"
12-140	5/8"	2"	1/2"	4"
12-142 Solid Carbide		∠ se with Porter-Cable® Do		4

**New bit for use with Porter-Cable® Dovetail Jig #4212





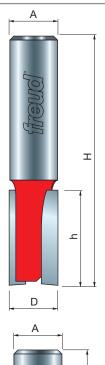


Double Flute

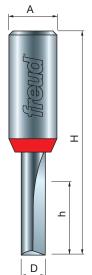


* Solid Carbide

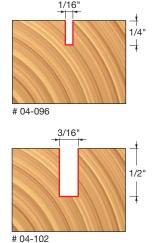
Double Flute Straight Bits (Continued)

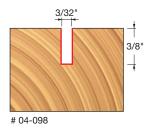


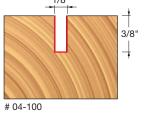
Item Number	Overall Dia.(D)	Carbide Height(h)	Shan Dia.(/
12-148	1-1/16"	1-1/4"	1/2
12-152	3/4"	1"	1/2
12-154	3/4"	1-1/4"	1/2
12-156	3/4"	1-1/2"	1/2
12-158	3/4"	2"	1/2
12-162	1-3/16"	1-1/4"	1/2
12-168	7/8"	1-1/4"	1/2
12-172	1"	1-1/4"	1/2
12-178	1-1/8"	1-1/2"	1/2
12-182	1-1/4"	1-1/2"	1/2
12-186	1-3/8"	1-1/4"	1/2
12-190	1-1/2"	1-1/4"	1/2
12-194	1-3/4"	1-1/4"	1/2
Undersized Plyv	vood Bits		
04-111*	7/32"	3/4"	1/4
04-127	1-5/32"	3/4"	1/4
04-128	1-5/32"	7/8"	1/4
12-114	1-5/32"	1-1/4"	1/2
12-135	1-9/32"	1-1/4"	1/2
12-150	2-3/32"	1-1/4"	1/2
Metric Version			
04-502*	2mm	5/32"	1/4
04-508*	3mm	5/16"	1/4
04 510*	F	1 [/00	4/4

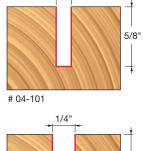


04-121	1-3/32	3/4	1/4	2
04-128	1-5/32"	7/8"	1/4"	2-3/8"
12-114	1-5/32"	1-1/4"	1/2"	2-7/8"
12-135	1-9/32"	1-1/4"	1/2"	2-7/8"
12-150	2-3/32"	1-1/4"	1/2"	2-7/8"
Metric Version				
04-502*	2mm	5/32"	1/4"	1-1/2"
04-508*	3mm	5/16"	1/4"	1-3/4"
04-512*	5mm	1-5/32"	1/4"	2"
04-516	10mm	3/4"	1/4"	1-7/8"
04-520	10mm	1-1/4"	1/4"	2-3/8"
04-524	12mm	3/4"	1/4"	2-1/64"
04-528	12mm	1-1/4"	1/4"	2-3/8"
04-532	15mm	3/4"	1/4"	2-1/4"
04-536	15mm	1-1/4"	1/4"	2-5/8"
04-540	16mm	3/4"	1/4"	2-1/4"
04-544	16mm	1-1/4"	1/4"	2-5/8"
04-548	18mm	3/4"	1/4"	2"
04-552	20mm	3/4"	1/4"	2"
12-518	10mm	1"	1/2"	2-1/2"
12-520	10mm	1-1/4"	1/2"	2-3/4"
12-526	12mm	1"	1/2"	2-1/2"
12-530	12mm	1-1/4"	1/2"	2-3/4"
12-542	16mm	1"	1/2"	2-1/2"
	16mm	1-1/4"	1/2"	2-3/4"







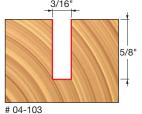


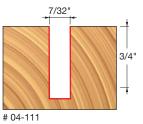
5/32"

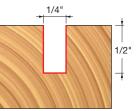
Overall Length(H) 3" 2-1/2" 3" 3-1/2" 3" 3" 3"

3" 2-7/8" 3" 3" 3"

> 2" 2"

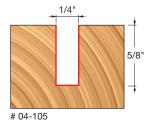


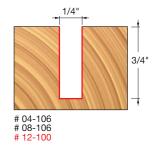


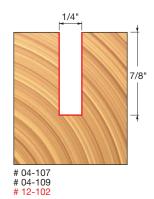


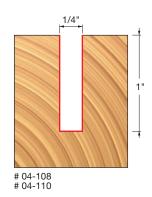
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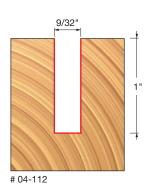
Double Flute Straight Bits

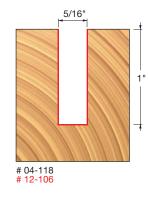


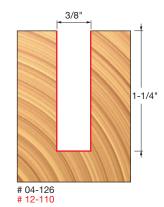


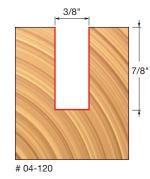


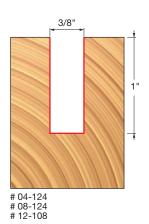


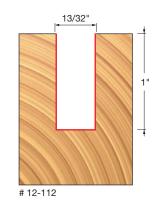


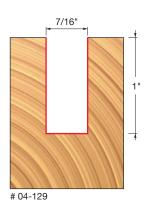


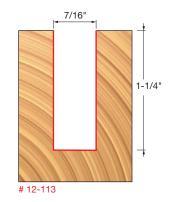


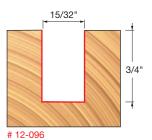


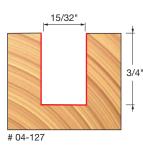


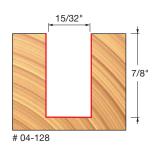


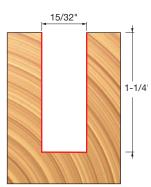




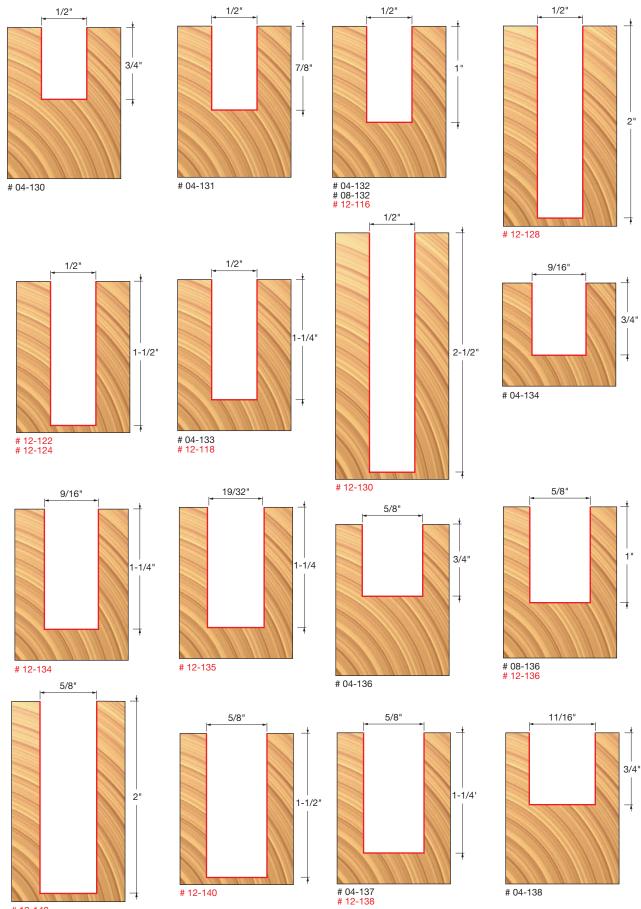








Double Flute Straight Bits (Continued)

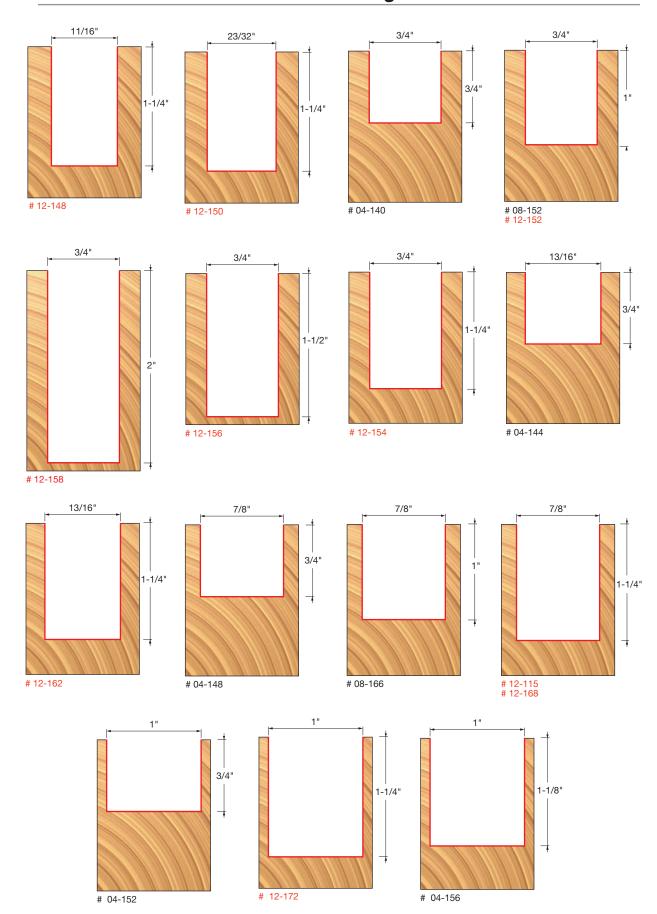


Red Item Numbers Indicate 1/2" Shank

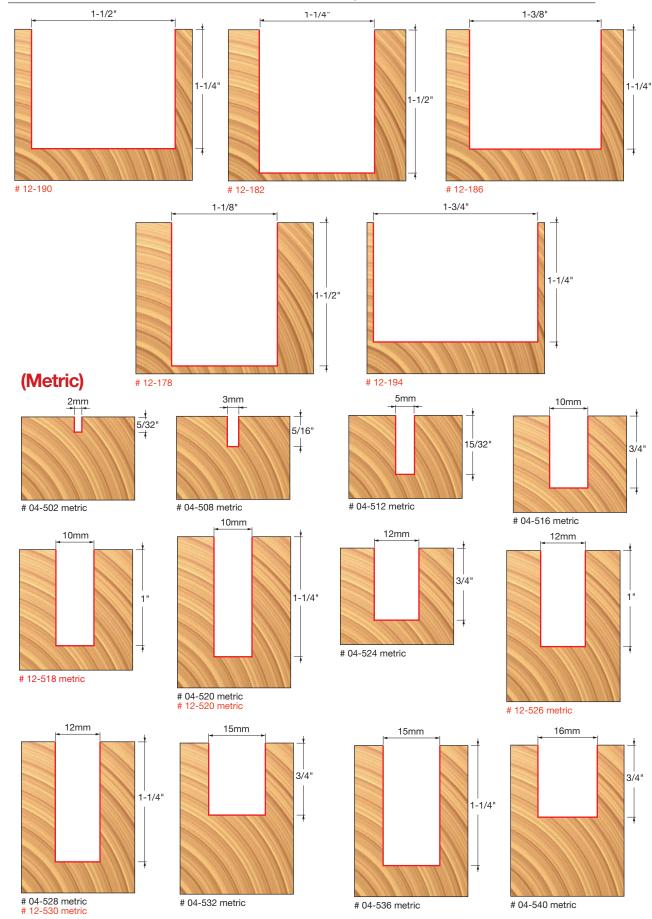
All Profile Drawings 1:1 Scale

(Continued)

Double Flute Straight Bits



Double Flute Straight Bits (Continued)

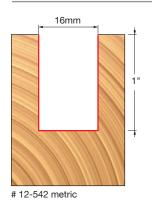


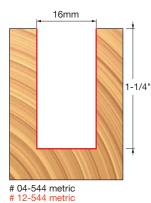
All Profile Drawings 1:1 Scale

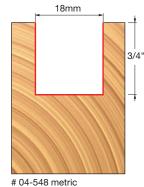


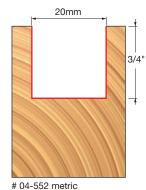
(Continued)

Double Flute Straight Bits















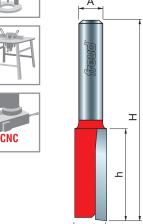


Application: General stock removal at fast feed rates

- This single flute Freud bit was designed for high production work with maximum chip clearance for fast feed rates.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item	Overall	Carbide	Shank	Overall
Number	Dia.(D)	Height(h)	Dia.(A)	Length(H)
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	3/8"	2-1/2"
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"
* Solid Carbide				



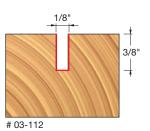


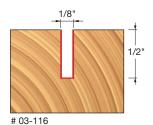


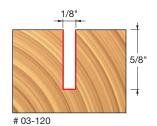
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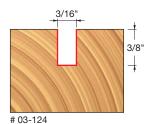
Single Flute

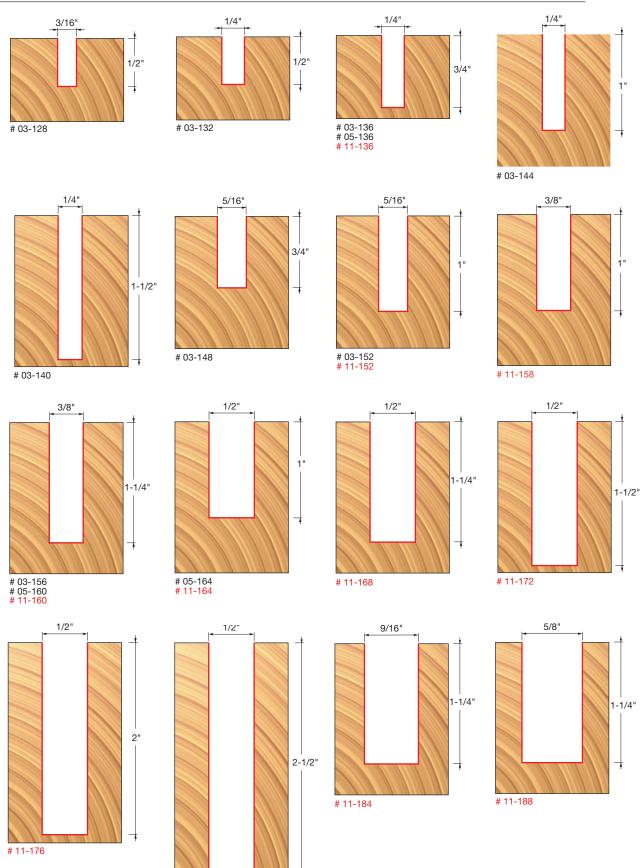












ROUTER BITS & SETS

11-180

Α

CNC

Mortising Bits

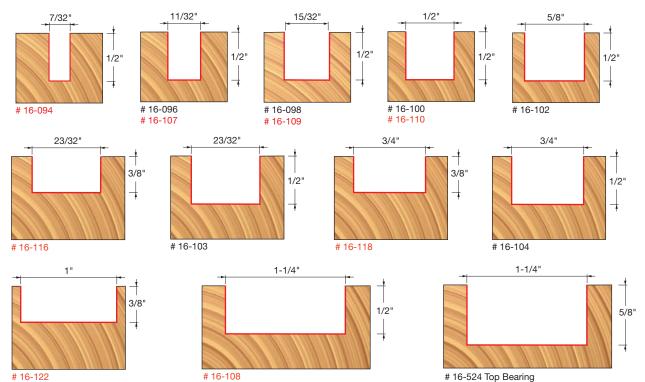
Application: Down shear works to eliminate splintering ideal for hinges, mortises, and dadoes

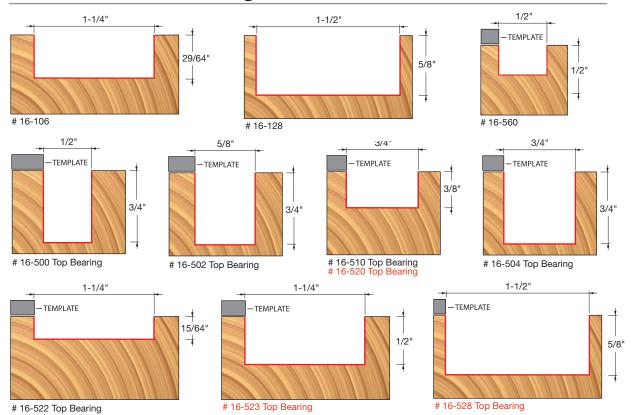
- Freud's Mortising Bits are designed with deep center gullets for maximum material removal without chip loading.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

		portable routers.					
	<u>.</u>	Item Number	Overall Dia.(D)	Carbide Height(h)	Shank Dia.(A)	Overall Length(H)	
		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"	
1		16-102	5/8"	1/2"	1/4"	2"	
		16-103	23/32"	1/2"	1/4"	1-3/4"	
ے		16-104	3/4"	1/2"	1/4"	2"	
	.	16-106	1-1/4"	29/64"	1/4"	2-1/8"	
	NEW	► 16-094**	7/32"	1/2"	1/2"	2-1/4"	
D	NEW	► 16-107**	11/32"	1/2"	1/2"	2-1/4"	
		16-108	1-1/4"	1/2"	1/2"	2-3/8"	
	NEW	► 16-109**	15/32"	1/2"	1/2"	2-1/4"	
Ĭ		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"	
		16-122	1"	3/8"	1/2"	2-9/32"	
		16-128	1-1/2"	5/8"	1/2"	2-17/32"	
A LIVE		Top Bearing Me	ortising-Dado Bits				
No.		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"	
	NEW	► 16-560*	1/2"	5/16"	1/4"	2-7/16"	
- 7/-		16-520	3/4"	3/8"	1/2"	2-3/32"	
	10	16-522	1-1/4"	15/64"	1/2"	2"	
	100	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"

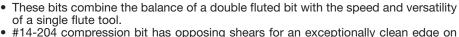
^{**}Downshear bits for routing plywood grooves





Stagger Bits

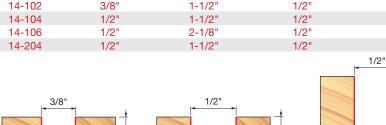


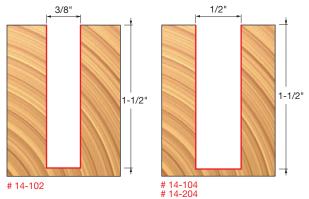


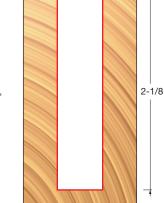
both the top and bottom of the cut. Cuts all composition materials, plywoods, hardwoods, and softwoods.

Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.









3-3/16"

14-106

Red Item Numbers Indicate 1/2 " Shank

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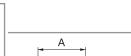












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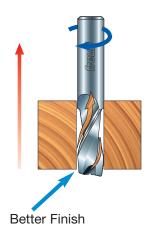
Up Spiral Bits

Application: Cutting mortises and routing deep blind holes

- Freud's solid carbide up spiral bits combine effective chip removal with a cut that can't be matched by standard straight bits. Ideal for production settings.
- Excellent for grooves and dadoes in all composite materials, plywoods, hardwoods and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

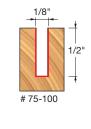
	Item Number	Overall Dia.(D)	Cutting Length(h)	Shank Dia.(A)	Overall Length(H)
	Double Flute				
	75-100*	1/8"	1/2"	1/4"	2"
	75-101*	3/16"	3/4"	1/4"	2"
	75-102*	1/4"	1"	1/4"	2-1/2"
	75-103*	1/4"	3/4"	1/4"	2"
	75-104*	5/16"	1"	1/2"	3"
NEV	→ 75-105*	3/8"	1-1/8"	3/8"	3"
	75-106*	3/8"	1-1/4"	1/2"	3"
	75-108*	1/2"	1-1/4"	1/2"	3"
	75-109*	1/2"	2"	1/2"	4"
NEV	► 75-110*	1/2"	1-5/8"	1/2"	3-1/2"
	75-202*	5/32"	5/8"	1/4"	2"
	Triple Flute				
	75-306*	3/8"	1-1/4"	1/2"	3"
	75-308*	1/2"	2"	1/2"	4"

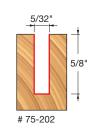


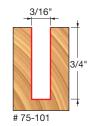


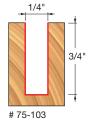
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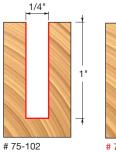


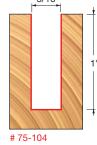


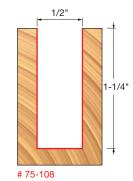


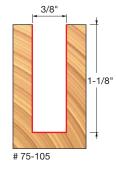




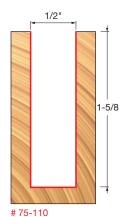


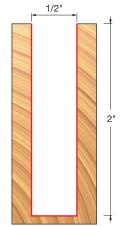






3/8" 1-1/4" # 75-106 # 75-306

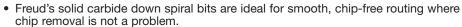


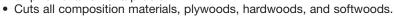


75-109 # 75-308

Down Spiral Bits

Application: Grooves and dadoes in single-sided veneers and laminates





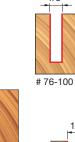
 Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

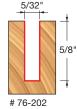


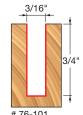


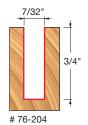
	li a un	Overell	Custing or	Chanle	Overell
	Item Number	Overall Dia.(D)	Cutting Length(h)	Shank Dia.(A)	Overall Length(H)
		Dia.(D)	Lenguin	Dia.(A)	Lengin(n)
	Double Flute				
	76-100*	1/8"	1/2"	1/4"	2"
	76-101*	3/16"	3/4"	1/4"	2"
	76-102*	1/4"	1"	1/4"	2-1/2"
	76-103*	1/4"	3/4"	1/4"	2"
	76-104*	5/16"	1"	1/2"	2-1/2"
NEW	→ 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"	3-1/2"
	76-110*	1/2"	2"	1/2"	4"
	76-202*	5/32"	5/8"	1/4"	2"
	76-204*	7/32"	3/4"	1/4"	2"
	Triple Flute				
	76-306*	3/8"	1-1/4"	1/2"	3"
NEW	→ 76-308*	1/2"	1-5/8"	1/2"	4"

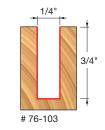


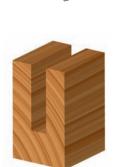










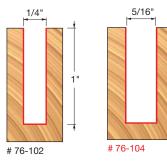


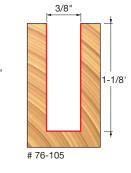
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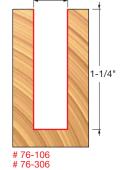
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Finish







1/2" 1/2" 1/2" 1/2" 1-5/8" 2" # 76-109

76-308

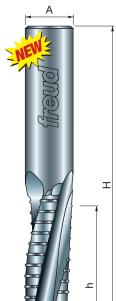
76-108











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Chipbreaker Up Spiral Bits

Application: Fast cuts in hard, dense materials such as composites, hardwood and hardwood plywood

- Chipbreaker edges are ideal for fast cutting applications in hard materials.
- · Upcut spirals provide smooth finish on bottom surface, and pull chips out of the kerf.
- Routs melamine and veneer as well as solid hardwoods and softwoods.
- · Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

	Item Number	Overall Dia.(D)	Cutting Length(h)	Shank Dia.(A)	Overall Length(H)
	Double Flute				
NEW	► 75-510*	1/2"	1-5/8"	1/2"	3-1/2"
	Triple Flute				
NEW	► 75-608*	1/2"	1-1/8"	1/2"	3"
NEW	► 75-610*	1/2"	1-5/8"	1/2"	3-1/2"
	* Solid Carbide				
			1		<u> </u>









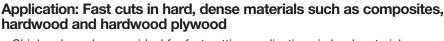












- Chipbreaker edges are ideal for fast cutting applications in hard materials.
- Downcut spirals provide smooth finish on the top surface of panels.

Chipbreaker Down Spiral Bits

- Routs melamine and veneer as well as solid hardwoods and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

	Item Number	Overall Dia.(D)	Cutting Length(h)	Shank Dia.(A)	Overall Length(H)
	Double Flute				
NEW	► 76-510*	1/2"	1-5/8"	1/2"	3-1/2"
	Triple Flute				
NEW	► 76-608*	1/2"	1-1/8"	1/2"	3"
NEW	► 76-610*	1/2"	1-5/8"	1/2"	3-1/2"

* Solid Carbide

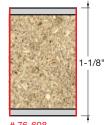


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Double Flute

Triple Flute



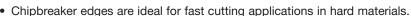


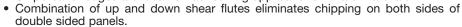
76-610

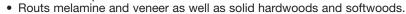


Chipbreaker Double Compression Spirals

Application: Fast cuts in hard, dense materials such as composites, hardwood and hardwood plywood







Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item	Overall	Cutting	Shank	Overall
Number	Dia.(D)	Length(h)	Dia.(A)	Length(H)
77-610*	1/2"	1-5/8"	1/2"	4"

^{*} Solid Carbide

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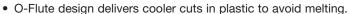






O-Flute Up Spiral Bits

Application: Smooth finish on solid surface and plastics such as ABS, UHMW, acrylic, nylon and polycarbonate



Upcut spiral clears chips fast and provides perfect bottom surface.

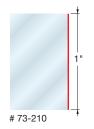
Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

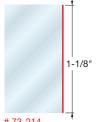










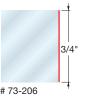












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O-Flute Down Spiral Bits

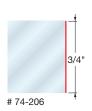
Application: Smooth finish on solid surface and plastics such as ABS, UHMW, acrylic, nylon and polycarbonate

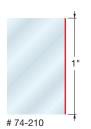
- O-Flute design delivers cooler cuts in plastic to avoid melting.
- Downcut spiral provides perfect top surface.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

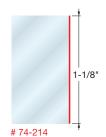
Item Number	Overall Dia.(D)	Cutting Length(h)	Shank Dia.(A)	Overall Length(H)
NEW 74-204*	1/4"	3/8"	1/4"	2-1/2"
NEW 74-206*	1/4"	3/4"	1/4"	2-1/2"
74-210*	3/8"	1"	3/8"	3"
NEW 74-214*	1/2"	1-1/8"	1/2"	3-1/2"

* Solid Carbide













Super Hook Straight Bits (CNC-Only)

Application: Extra fine finish and remarkable life in melamine and other composites as well as plywood, hardwood and softwood

- Up to 4 times the life* of conventional straight bits in melamine and other abrasive composites.
- Beautiful finish on laminated surfaces.
- Unique geometry delivers the best life and finish.
- For use in CNC routers only!

Item Number	Overall Dia.(D)	Carbide Height(h)	Shank Dia.(A)	Overall Length(H)
NEW 13-113	7/16"	1"	1/2"	2-3/4"
NEW 13-114	15/32"	1"	1/2"	2-3/4"
NEW 13-116	1/2"	1"	1/2"	2-3/4"
NEW 13-122	1/2"	1-1/2"	1/2"	3"
NEW 13-128	1/2"	2"	1/2"	3-3/4"
NEW 13-132	17/32	1"	1/2"	2-3/4"
NEW 13-134	9/16"	1"	1/2"	2-3/4"
NEW 13-136	5/8"	1"	1/2"	2-3/4"
NEW 13-142	5/8"	2"	1/2"	3-3/4"
NEW 13-148	11/16"	1"	1/2"	2-3/4"
NEW 13-150	23/32"	1"	1/2"	2-3/4"
NEW 13-154	3/4"	1"	1/2"	2-3/4"
NEW 13-156	3/4"	1-1/2"	1/2"	3"
13-158	3/4"	2"	1/2"	3-3/4"

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



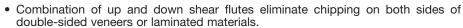


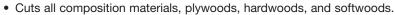


13-142 # 13-158

Single Compression Bit

Application: Fast, chip-free routing in 2-sided veneers and laminates





 Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.



	Item Number	Overall Dia.(D)	Cutting Length(h)	Shank Dia.(A)	Overall Length(H)
NEW	→ 77-102*	1/4"	7/8"	1/4"	2-1/2"
NEW	→ 77-104*	3/8"	1-1/8"	3/8"	3"
	77-106*	3/8"	1-1/4"	1/2"	3"
	77-108*	1/2"	1-1/4"	1/2"	3"
	77-109*	1/2"	1-1/2"	1/2"	3-1/2"



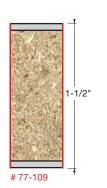
* Solid Carbide

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Double Compression Bits

Application: Fine finish, chip-free routing in double-sided veneers and laminates



• Cuts all composition materials, plywoods, hardwoods, and softwoods.

 Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

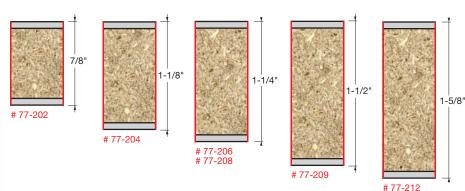




Item Number	Overall Dia.(D)	Cutting Length(h)	Shank Dia.(A)	Overall Length(H)
77-202*	1/4"	7/8"	1/4"	2-1/2"
77-204*	3/8"	1-1/8"	3/8"	3"
77-206*	3/8"	1-1/4"	1/2"	3"
77-208*	1/2"	1-1/4"	1/2"	3"
77-209*	1/2"	1-1/2"	1/2"	3-1/2"
→ 77-212*	1/2"	1-5/8"	1/2"	4"



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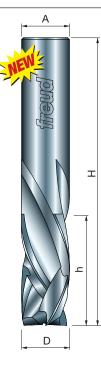
CNC











Triple Compression Bit

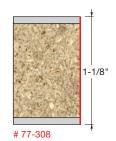
Application: Ultra fine finish and fast cuts in double sided veneers, laminates and solid hardwood and softwood

- · Perfect finish on both top and bottom surface of panels.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.
- When used in a CNC, the triple flute design allows very fast feed rates and high

	Item	Overall	Cutting	Shank	Overall
	Number	Dia.(D)	Length(h)	Dia.(A)	Length(H)
NEW	→ 77-308*	1/2"	1-1/8"	1/2"	3"

* Solid Carbide



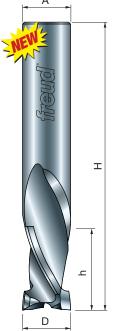


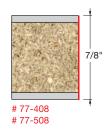


Application: Mortises or grooves with a perfect top surface, or through-cuts in thin double sided veneers and laminates

- · Shorter up shear length 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.
- Combination of up and down shear flutes eliminates chipping on both sides of double sided panels.
- Routs melamine, veneer plywood and other double sided materials, as well as hardwoods and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.
- Double flute spirals are for extra clean cuts at faster feed rates.

	Item Number	Overall Dia.(D)	Carbide Height(h)	Upcut Length	Shank Dia.(A)	Overall Length(H)
Si	ngle Flute					
NEW	- 77-408*	1/2"	7/8"	13/64"	1/2"	3"
NEW	- 77-410*	1/2"	1-3/8"	13/64"	1/2"	3-1/2"
Do	ouble Flute					
NEW	- 77-508*	1/2"	7/8"	13/64"	1/2"	3"
NEW	- 77-510*	1/2"	1-3/8"	13/64"	1/2"	3-1/2"
* 5	Solid Carbide					

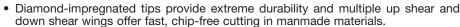


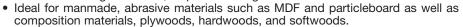


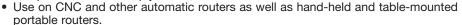


Diamond Compression Bits









Item Number	Overall Dia.(D)	Cutting Length(h)	Shank Dia.(A)	Overall Length(H)
78-116	1/2"	1"	1/2"	2-7/8"
78-136	5/8"	1"	1/2"	2-7/8"







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Panel Pilot Bits

Application: Template work & cutting openings in paneling, siding, etc.

- Freud's Panel Pilot Bits will outlast high-speed steel bits many times before sharpening. The drill through point allows self-starting, and the pilot acts as a guide for template work.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on portable routers for template work.

Item Number	Overall Dia.(D)	Carbide Height(h)	Shank Dia.(A)	Number of Flutes	Overall Length(H)
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"
28-100	3/8"	1"	1/4"	2	3"
28-104	1/2"	1-1/4"	1/2"	2	3-3/4"
70-100*	1/4"	1/4"	1/4"	1	1-5/8"























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Flush Trim Upcut Spiral Bits

Application: Perfect for any flush trim or pattern application, especially in abrasive materials like melamine or solid surface

- Freud's solid carbide spiral flush trim bits feature a special TiCo™ carbide blend that delivers extremely long life in wood or abrasive materials.
- Upcut spiral design clears chips fast.
- Continuous spiral cutting action produces a super-smooth cut.
- Use in hand-held or table-mounted routers.

Number	Overall Dia.(D)	Bearing Dia. (B)	Length(h)	Snank Dia.(A)	Length(H)
NEW 75-508	1/2"	1/2"	1-1/4"	1/2"	3-3/4"
NEW 75-509	1/2"	1/2"	2"	1/2"	4-3/4"







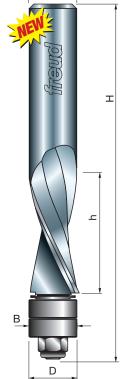


Flush Trim Downcut Spiral Bits

Application: Perfect for any flush trim or pattern application, especially in abrasive materials like melamine or solid surface

- Downcut spiral design produces an extra-clean top edge on delicate surfaces.
- Freud's solid carbide spiral flush trim bits feature a special TiCo™ carbide blend that delivers extremely long life in wood or abrasive materials.
- Continuous spiral cutting action produces a super-smooth cut.
- Use in hand-held or table mounted routers

	Item Number	Overall Dia.(D)	Bearing Dia. (B)	Cutting Length(h)	Shank Dia.(A)	Overall Length(H)
NEW	► 76-508	1/2"	1/2"	1-1/4"	1/2"	3-3/4"
NEW	► 76-509	1/2"	1/2"	2"	1/2"	4-3/4"







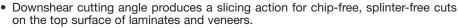


All Profile Drawings 1:1 Scale

freud®

Downshear Helix Flush Trim Bits





• The shear action also delivers easier, smooth cuts in thick materials.

• The 3/4" diameter body and full 1" or 2" cutting length provide the stability and cutting capacity for thick stock or for routing multiple parts with a template.

• Cuts all composition materials, plywoods, hardwoods, and softwoods.

• Use on portable or table-mounted routers for template work.

Item Number	Overall Dia.(D)	Bearing Dia. (B)	Carbide Height(h)	Shank Dia.(A)	Overall Length(H)
EW 42-202	3/4"	3/4"	1"	1/2"	3-1/8"
*42-310	3/4"	3/4"	1"	1/2"	3"
EW 42-204	3/4"	3/4"	2"	1/2"	4-1/8"

*Includes new flush bearing design with no protruding screw.



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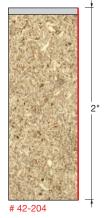
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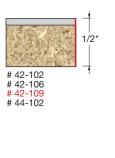
Bearing Flush Trim Bits

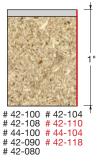
Application: Trimming laminate counter tops and doing pattern work

- 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.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on portable or table-mounted routers.

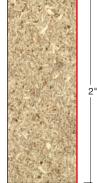
• Use on po	ortable or ta	ibie-mounte	a routers.			
Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Number of Flutes	Shank Dia.(A)	Overall Length(H)
42-080	7/8"	7/8"	1"	2	1/4"	3"
42-090	3/4"	3/4"	1"	2	1/4"	2-15/16"
42-100	3/8"	3/8"	1"	2	1/4"	2-13/16"
42-102	3/8"	3/8"	1/2"	2	1/4"	2-5/16"
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"
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"

















Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale









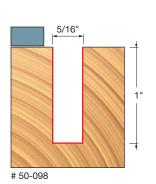
Application: Template work and lettering

- 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.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- · Use on hand-held and table-mounted portable routers.

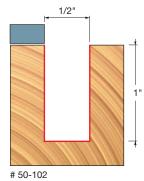
Top Bearing Flush Trim Bits

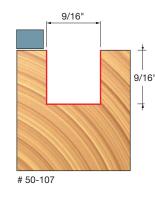
Item Number	Overall Dia.(D)	Bearing Dia. (B)	Carbide Height(h)	Shank Dia.(A)	Overall Length(H)
50-098*	5/16"	1/2"	1"	1/4"	2-23/32"
50-101	1/2"	1/2"	1-1/4"	1/4"	2-1/2"
50-102	1/2"	1/2"	1"	1/4"	2-5/8"
50-103	5/8"	5/8"	9/16"	1/4"	2-1/4"
50-104	5/8"	5/8"	1"	1/4"	2-5/8"
50-105	9/16"	9/16"	3/4"	1/4"	2-5/16"
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"	1/4"	2-3/4"
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"

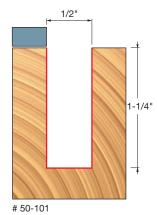
^{*} This bit has an oversized bearing to work for various jigs.

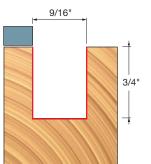


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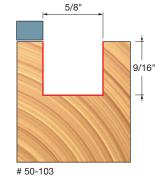


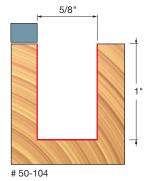


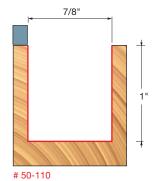


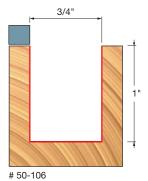


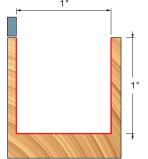
50-105



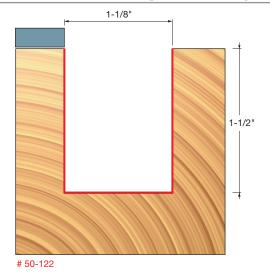


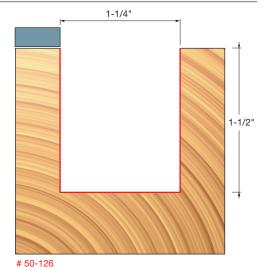


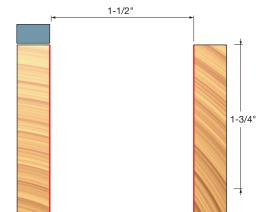


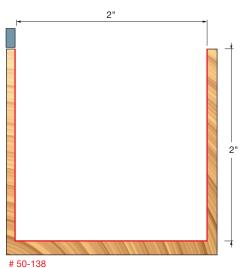


50-112



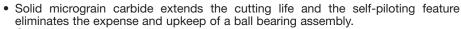






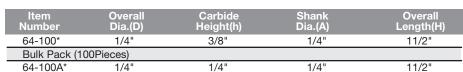
Solid Carbide Flush Trim Bits

Application: Cutting plastic laminate quickly and cleanly

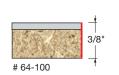




• Use on portable routers and laminate trimmers for trimming plastic laminate.



* Solid Carbide









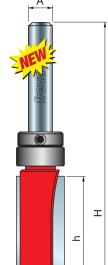
50-130











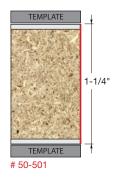
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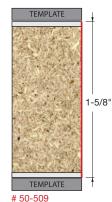
Top & Bottom Bearing Flush Trim Bit

Application: Trimming laminate counter tops and doing pattern work

- Double bearing design allows you to choose the cutting direction that best suits your work piece.
- Freud's Top & Bottom Bearing Bits let 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.
- Perfect for templates placed above or below the work piece, or to trim laminates or veneer perfectly flush with countertops, shelving and other projects.
- Cuts all hardwoods, softwoods, plastic laminates and veneered plywood.
- Use on hand-held routers, laminate trimmers, and table-mounted portable routers.

Item Number	Overall Dia.(D)	Bearing Dia. (B)	Carbide Height(h)	Shank Dia.(A)	Overall Length(H)
50-501	1/2"	1/4"	1-1/4"	1/4"	3-5/16"
NEW 50-509	3/4"	3/4"	1-5/8"	1/2"	3-7/8"





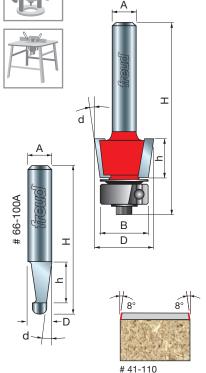
Bevel Trim Bits

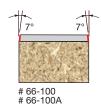
Application: Cutting bevels in plastic laminates for a clean, finished edge

- The 41 Series Bits provide a range of bevels from 8 degrees to 45 degrees and feature a ball bearing guide.
- The 66-100 solid carbide bit creates a 7-degree bevel and includes a self-piloting feature that eliminates the expense and upkeep of a ball bearing assembly.
- Cuts all plastic laminates.
- Use on Hand-held routers, table-mounted portable routers, and laminate trimmers for trimming plastic laminate.

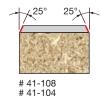
Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Angle (d)	Shank Dia.(A)	Overall Length(H)
41-102	19/32"	1/2"	9/32"	15°	1/4"	1-7/8"
41-104	19/32"	1/2"	9/32"	25°	1/4"	1-7/8"
41-106	31/32"	1/2"	1/4"	45°	1/4"	1-7/8"
41-108	25/32"	3/8"	29/64"	25°	1/4"	1-15/16"
41-110	9/16"	1/2"	13/32"	8°	1/4"	2"
66-100*	1/4"	3/16"	1/4"	7°	1/4"	1-1/2"
Bulk Pack (10	00 Pieces of	#66-100)	·	•	•	
66-100A*	1/4"	3/16"	1/4"	7°	1/4"	1-1/2"

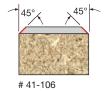
^{*} Solid Carbide







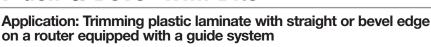


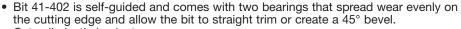


Flush & Bevel Trim Bits





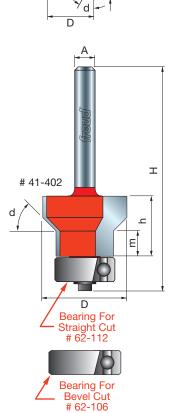




• Cuts all plastic laminates.

• Use on hand-held routers, table-mounted portable routers, and laminate trimmers equipped with a guiding system.

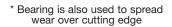
Item Number	Overall Dia.(D)	Carbide Height(h)	Minor Height(m)	Angle (d)	Shank Dia.(A)	Overall Length(H)
41-300	15/32"	1/2"	3/16"	30°	1/4"	1-25/32"
41-402	7/8"	5/8"	39/64"	45°	1/4"	2-1/4"
68-100*	1/4"	3/8"	11/64"	7°	1/4"	1-1/2"
* Solid Carbide						

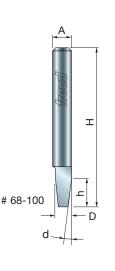


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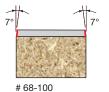
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41-300













41-402 with bearing #62-112



41-402 # 68-100 # 41-300 with bearing #62-106



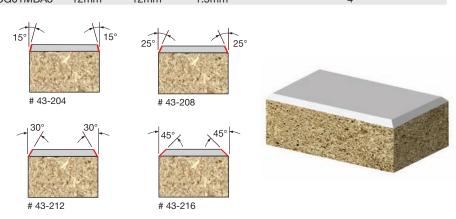


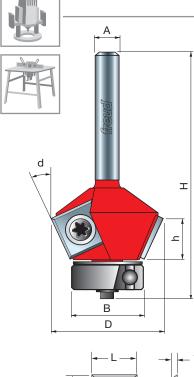
Application: Creating a clean, beveled edge for plastic laminate

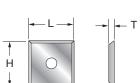
- Replacement throwaway knives (CG01MBA3) can be rotated for multiple cutting edges so you always have sharp edge.
- · Cuts all plastic laminates.
- Use on hand-held routers, laminate trimmers, and table-mounted portable routers.

Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Angle (d)	Shank Dia.(A)	Overall Length(H)
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			
Item	Length	Height	Thickness	Number of
Number	(L)	(H)	(T)	Cutting Edges
CC01MBA2	12mm	12mm	1 5mm	Λ







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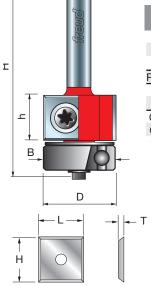
Replacement Cutter

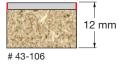
Insert Flush Trim Bits

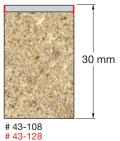
Application: Creating a clean, beveled edge for plastic laminate

- Replacement throwaway knives (CG12) can be rotated for multiple cutting edges so you always have sharp edge.
- · Cuts all plastic laminates.
- Use on hand-held routers, laminate trimmers, and table-mounted portable routers.

43-106	3/4"	3/4"	12mm	1/4"	2"
43-108	3/4"	3/4"	30mm	1/4"	2-3/4"
43-128	3/4"	3/4"	30mm	1/2"	2-3/4"
Replacement Cu	utters				
Item	Length	Height	Thickness	Number of	
Number	(L)	(H)	(T)	Cutting Edges	
CG01MBA3*	12mm	12mm	1.5mm	4	
CG01MEA3*	12mm	30mm	1.5mm	2	
*Replacement (Cutters: CG01	IMBA3 = 43-106 ar	nd CG01MEA3	= 43-108,43-128	





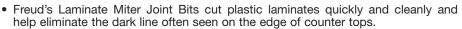




Replacement Cutter

Laminate Miter Joint Bits

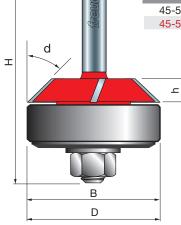
Application: Producing 45° miter joints in the edge of laminated surfaces

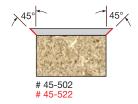


- Cuts all plastic laminates.
- Use on hand-held routers or table-mounted portable routers.

Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Angle (d)	Shank Dia.(A)	Overall Length(H)
45-502	1-3/8"	1-3/8"	1/4"	45°	1/4"	2-3/8"
45-522	1-3/8"	1-3/8"	1/4"	45°	1/2"	2-3/8"









Flush Trim "V" Groove Bits

Application: Trimming laminated countertops and cabinets

- · Adds small, decorative "V" groove while bringing a cabinet frame flush with the front of the cabinet, or trimming a laminated top.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on portable or table-mounted routers.

Item Number	Overall Dia.(D)	Small Dia.(n)	Bearing Dia.(B)	Carbide Height(h)	Shank Dia.(A)	Overall Length(H)
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"









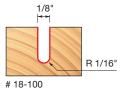
CNC

Round Nose Bits

Application: Fluted millwork, signs and decorative veining

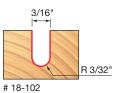
- Add a personal touch to cabinet doors, drawer fronts, and fluted millwork, or use these bits to engrave wood signs.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
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 Ro	ound Nose Bits	3			
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 * Solid Carbide	3/4"	1-1/4"	3/8"	1/2"	2-27/32"



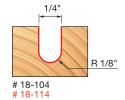
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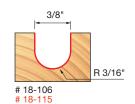
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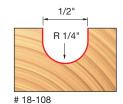


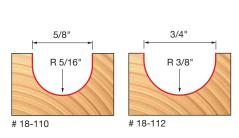
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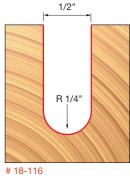
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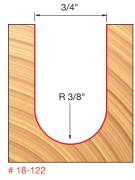


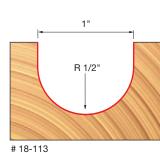


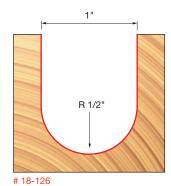


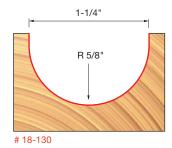


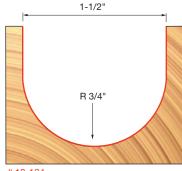




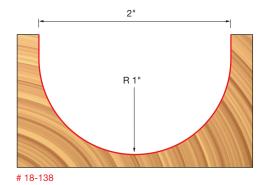


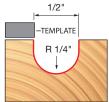




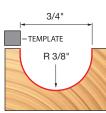


18-134

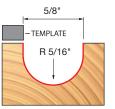




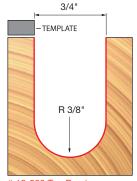
18-508 Top Bearing



18-512 Top Bearing



18-510 Top Bearing

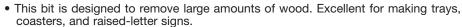


18-522 Top Bearing

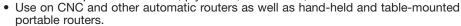
Dish Carving Bits

Application: Trays, coasters, and signs





Cuts all composition materials, plywoods, hardwoods, and softwoods.



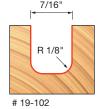


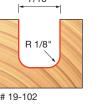
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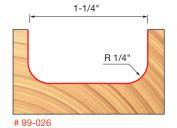
ROUTER BITS & SETS



		portable routers.								
		Item Number	Overall Dia.(D)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)			
	ᄑ	19-102	7/16"	1/2"	1/8"	1/4"	2"			
		19-104	1/2"	1/2"	1/8"	1/4"	2-1/8"			
	_	19-106	3/4"	5/8"	1/4"	1/4"	1-7/8"			
		19-126	3/4"	5/8"	1/4"	1/2"	2-5/8"			
	ا اع	99-026	1-1/4"	19/32"	1/4"	1/2"	2-1/16"			
		Top Bearing Di	sh Carving Bit	S						
		19-506	3/4"	5/8"	1/4"	1/4"	2-5/16"			
	R	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"			

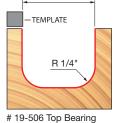




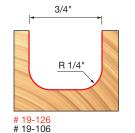


1/2" R 1/8"

19-104



3/4"



1-1/8" -TEMPLATE R 1/4"

19-578 Top Bearing

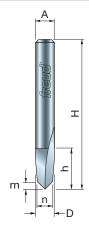
D

CNC









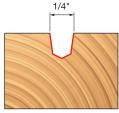
"V" Veining Bit

Application: Intricate designs in furniture and millwork

- This solid carbide bit will produce an attractive double "V" to accent furniture, cabinet doors and millwork.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item	Overall	Small	Carbide	Minor	Shank	Overall
Number	Dia.(D)	Dia.(n)	Height(h)	Height(m)	Dia.(A)	Length(H)
70-102*	1/4"	3/16"	7/32"	3/64"	1/4"	1-1/2"

^{*} Solid Carbide



70-102

Lettering Bits

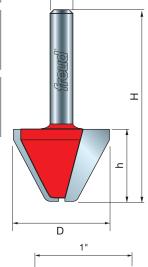
Application: 60-degree angle for relief lettering

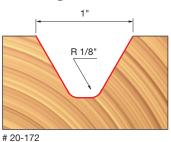
 Ideal for creating letters for signs, these bits produce a 60° angle for highly readable relief lettering. The flattened end removes excess material between letters quickly.

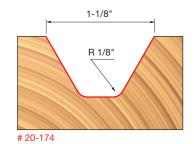
Cuts all composition materials, plywoods, hardwoods, and softwoods.

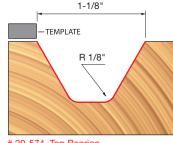
• Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
20-172	1"	-	3/4"	1/8"	1/4"	2"
20-174	1-1/8"	_	3/4"	1/8"	1/2"	2-1/4"
Top Bearing	Lettering Bit					
20-574	1-1/8"	1-1/8"	3/4"	1/8"	1/2"	2-13/32"





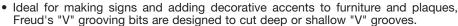


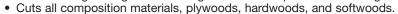


20-574 Top Bearing

"V" Grooving Bits

Application: Engraving, decorative accents and signs



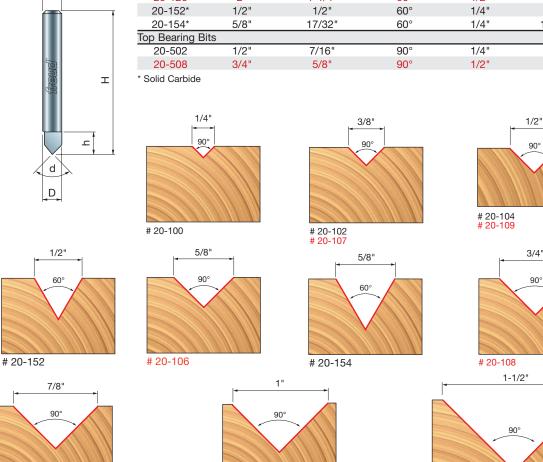


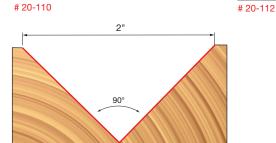
• Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.





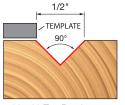
Item Number	Overall Dia.(D)	Carbide Height(h)	Angle (d)	Shank Dia.(A)	Overall Length(H)
20-100	1/4"	1/4"	90°	1/4"	1-1/2"
20-102	3/8"	5/16"	90°	1/4"	1-3/4"
20-104	1/2"	7/16"	90°	1/4"	1-3/4"
20-106	5/8"	1/2"	90°	1/2"	2-1/4"
20-107	3/8"	1/2"	90°	1/2"	2-1/4"
20-108	3/4"	1/2"	90°	1/2"	2-1/4"
20-109	1/2"	1/2"	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"
20-152*	1/2"	1/2"	60°	1/4"	2"
20-154*	5/8"	17/32"	60°	1/4"	1-15/16"
Top Bearing Bi	ts				
20-502	1/2"	7/16"	90°	1/4"	2-1/4"
20-508	3/4"	5/8"	90°	1/2"	2-1/4"

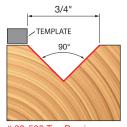




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D





20-508 Top Bearing

20-116

20-502 Top Bearing

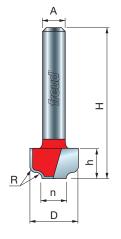
Red Item Numbers Indicate 1/2" Shank

20-120









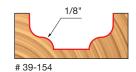
Ogee Groove Bits

Application: Decorative grooves and edges in furniture

- Freud's standard ogee groove bits create beautiful decorative grooves in molding and furniture, or use them with an edge guide to produce an ogee edge profile.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Small Dia.(n)	Carbide Height(h)	Radius (R)	Shank Dia.(A)	Overall Length(H)
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"



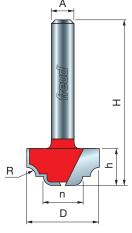








CNC



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R

Cove & Bead Groove Bits

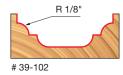
Application: Ornamental edge profiles and grooves

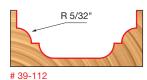
- Produce beautiful decorative grooves in molding and furniture with these bits or use them with an edge guide to create decorative edge profiles.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Small Dia.(n)	Carbide Height(h)	Radius (R)	Shank Dia.(A)	Overall Length(H)
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"









Classical Beading Groove Bits

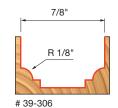
Application: Elaborate design for furniture and moldings

- The simple bead and flat bottom design created by these bits adds depth to any surface, including molding and furniture.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Small Dia.(n)	Carbide Height(h)	Minor Height(m)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
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"





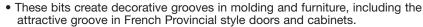


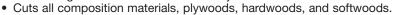
39-304



Ovolo Bits

Application: French Provincial style furniture





 Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.



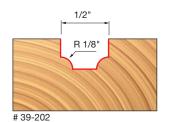


Item Number	Overall Dia.(D)	Small Dia.(n)	Carbide Height(h)	Radius (R)	Shank Dia.(A)	Overall Length(H)
39-202	1/2"	1/4"	5/16"	1/8"	1/4"	1-3/4"
39-204	7/8"	1/2"	1/2"	3/16"	1/4"	1-3/4"
39-205	7/8"	1/4"	5/8"	1/4"	1/4"	2"
39-206	1"	1/2"	1/2"	1/4"	1/4"	1-3/4"
39-208	1-1/4"	1/2"	9/16"	3/8"	1/4"	1-13/16"
39-210	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"
Top Bearing E	3its					
39-578	1-1/4"	1/2"	9/16"	3/8"	1/2"	2-5/16"

 Top Bearing Bits

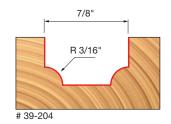
 39-578
 1-1/4"
 1/2"
 9/16"
 3/8"
 1/2"
 2-5/16"

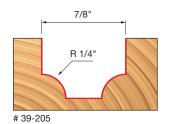
 39-580
 1-1/2"
 1/2"
 3/4"
 1/2"
 1/2"
 21/2"

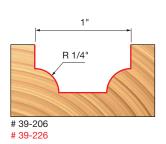


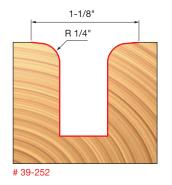
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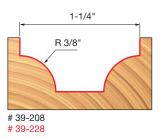
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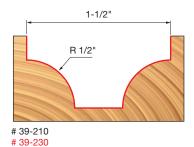


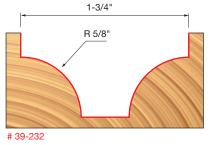


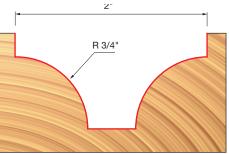








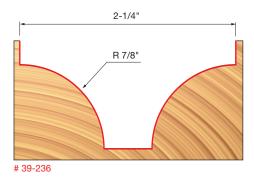


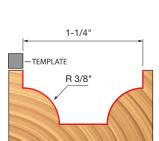


39-234

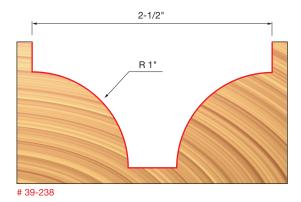
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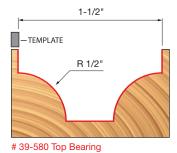
Ovolo Bits





39-578 Top Bearing



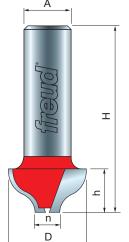


114

Standard Ogee Groove Bits



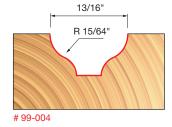


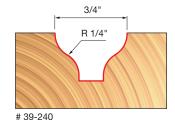


Application: Traditional accents for furniture and moldings

- This standard ogee groove bit accents any project with a slight, decorative groove and it can produce a decorative edge when used with an edge guide.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Small Dia.(n)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
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"





Top Bearing Classical Cove & Bead Groove Bits





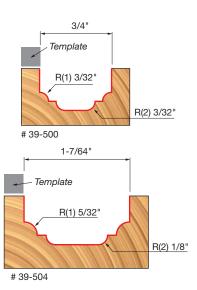
- These bits produce a cove and bead groove with a flat bottom to add depth to furniture or millwork, and they can also create a decorative edge profile.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.

9/16"

27/32"

• Use	 Use on hand-held and table-mounted portable routers. 								
Ite Num		Overall Dia.(D)	Small Dia.(n)	Carbide Height(h)	Large Radius(R1)	Small Radius(R2)	Shank Dia.(A)	Overall Length(H)	
39-	500	3/4"	13/32"	7/16"	3/32"	3/32"	1/4"	2-1/8"	
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"	

3/16"



1-3/8"

I

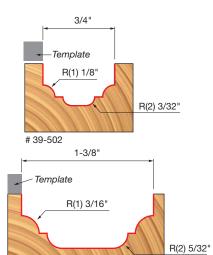
R (1)

R (2)

n

D

39-506



3/8"

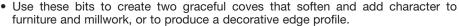
2-7/16"

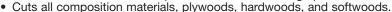
5/32"

Top Bearing Double Cove Groove Bits

Application: Template work, decorative edges and elaborate grooves

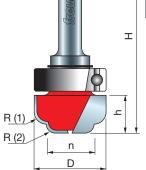
39-506

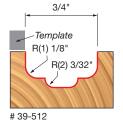


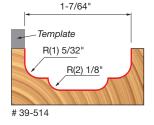


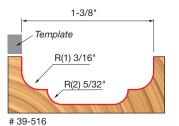
• Use on hand-held and table-mounted portable routers.











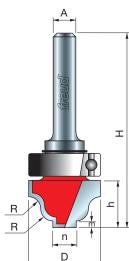










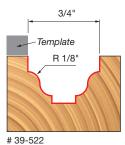


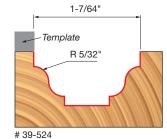
Top Bearing Fillet Ogee Groove Bits

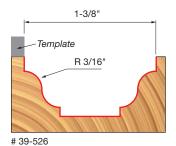
Application: Template work, decorative edges and elaborate grooves

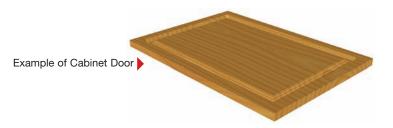
- These bits produce symmetrical ogee profile ending in a fillet. The flat bottom of the groove can create the illusion of panel construction, and they can also be used to create a decorative edge.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Small Dia.(n)	Carbide Height(h)	Minor Height(m)	Radius (R)	Shank Dia.(A)	Overall Length(H)
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"
39-526	1-3/8"	5/8"	5/8"	5/32"	3/16"	3/8"	2-7/16"







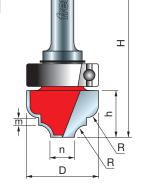


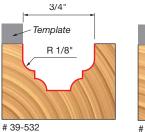
Top Bearing Cove & Bead Groove Bit

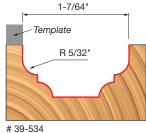
Application: Template work, decorative edges and elaborate grooves

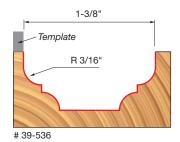
- · Create a traditional cove and bead profile that includes a flat bottom, creating the illusion of panel construction. These bits can also be used to create a decorative
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Small Dia.(n)	Carbide Height(h)	Minor Height(m)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
39-532	3/4"	1/4"	31/64"	5/64"	1/8"	1/4"	2-3/16"
39-534	1-7/64"	31/64"	35/64"	5/64"	5/32"	3/8"	2-5/16"
39-536	1-3/8"	5/8"	39/64"	5/64"	3/16"	3/8"	2-7/16"





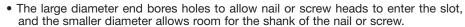


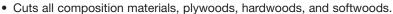


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Key Hole Bit

Application: Key holes for hanging plaques and shelves



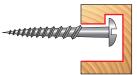


 Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item	Overall	Small	Carbide	Minor	Shank	Overall
Number	Dia.(D)	Dia.(n)	Height(h)	Height(m)	Dia.(A)	Length(H)
70-104	25/64"	3/16"	7/16"	1/4"	1/4"	1-5/8"









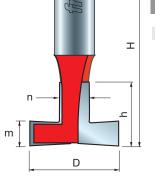
T-Slotting Cutter Bits

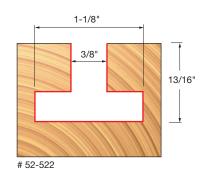
Application: Slotted wall displays

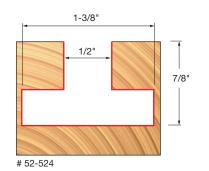
- Build your own sturdy, attractive, slotted wall to display items from garden tools and power tools to toys – hanging by a hook.
 - Cuts all composition materials, plywoods, hardwoods, and softwoods.
 - Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

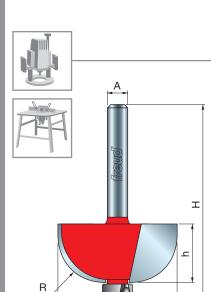
Item Number	Overall Dia.(D)	Small Dia.(n)	Carbide Height(h)	Minor Height(m)	Shank Dia.(A)	Overall Length(H)
52-522	1-1/8"	3/8"	13/16"	5/16"	1/2"	2-1/2"
52-524	1-3/8"	1/2"	7/8"	3/8"	1/2"	2-1/2"











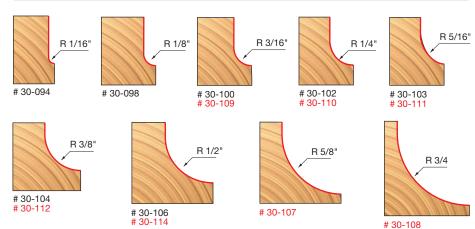
В D

Cove Bits

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.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- · Use on hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
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	1-1/8"	1/2"	1/2"	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"	5/8"	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	1-1/8"	1/2"	1/2"	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"

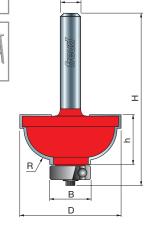


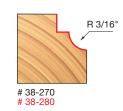
Cove & Fillet Bits

Application: Traditional design for furniture and millwork

- This bit produces a smooth cove with a small fillet at the top, a profile found in many traditional pieces of furniture and millwork.
- By simply raising the bit, you can create a standard cove profile.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

Dia.(A) Lei	ngth(H)
1/4" 2-	-3/16"
1/4" 2-	-3/16"
1/2" 2	2-1/2"
1/2" 2	2-1/2"
	1/4" 2- 1/4" 2- 1/2" 2







Cove Bits with Steel Pilots



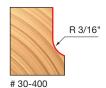




- Produce a classical cove profile, or remove the steel pilot to add the versatility of routing grooves or deeper coves. Freud's upward shear angle gives a more efficient smoother cut.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
30-400	3/4"	1/2"	33/64"	3/16"	1/4"	2"
30-404	11/4"	1/2"	7/16"	3/8"	1/4"	2"

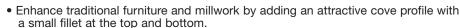


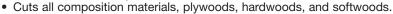




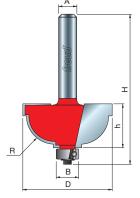
Classical Cove Bits

Application: Attractive detail for millwork and furniture



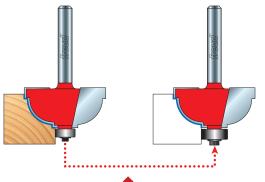


Use on hand-held and table-mounted portable routers

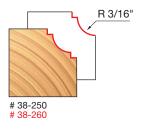


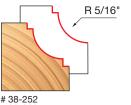
D

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Item Number	Overall Dia.(D)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
38-250	1-1/8"	1/2"	3/16"	1/4"	2-3/16"
38-252	1-1/4"	19/32"	5/16"	1/4"	2-3/16"
38-260	1-1/8"	1/2"	3/16"	1/2"	2-1/2"
38-262	1-1/4"	1-3/8"	5/16"	1/2"	2-1/2"



By simply ordering the 1/2" Ball Bearing #62-104 and the step washer #62-313 you will be able to obtain a different profile.





38-252 # <mark>38-262</mark>

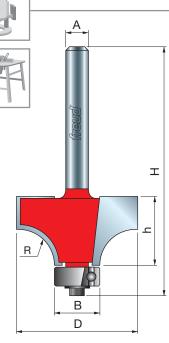


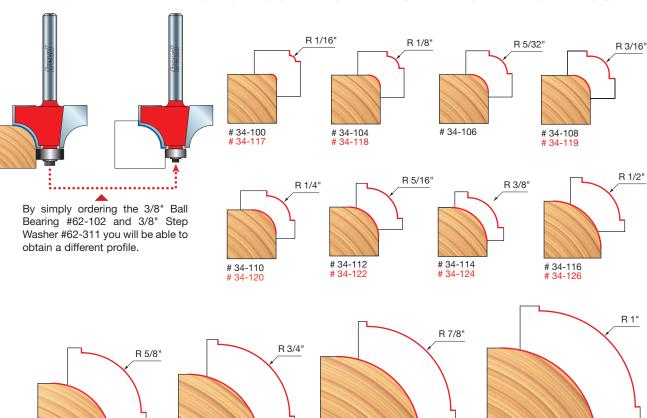


Application: Soften furniture edges and create decorative beads

- Use rounding over bits to soften furniture edges. For beading work, equip the bits with a Freud 62-102 bearing and 62-311 step washer.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

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Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
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"	1/2"	1/2"	1/4"	1/4"	2-3/16"
34-112	1-1/8"	1/2"	1/2"	5/16"	1/4"	2-3/16"
34-114	1-1/4"	1/2"	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"	1/2"	1/2"	1/4"	1/2"	2-1/2"
34-122	1-1/8"	1/2"	1/2"	5/16"	1/2"	2-1/2"
34-124	1-1/4"	1/2"	5/8"	3/8"	1/2"	2-5/8"
34-126	1-1/2"	1/2"	3/4"	1/2"	1/2"	2-3/4"
34-127	1-3/4"	1/2"	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"



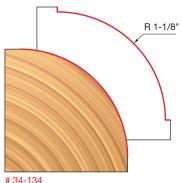


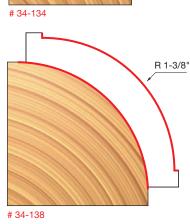
34-127

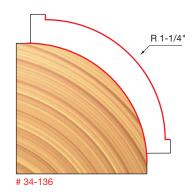
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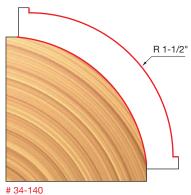
34-128

34-132



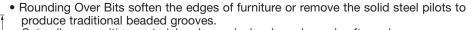


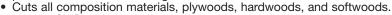




Rounding Over Bits with Steel Pilots

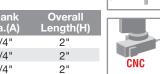
Application: Soften furniture edges or produce beaded grooves

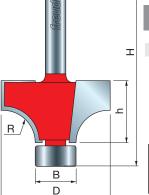


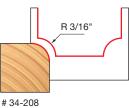


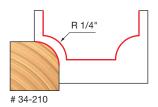
• Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

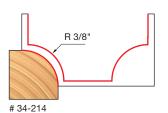
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Ite: Num							
34-2	08 7/8	3" 1/2"	1/2"	3/16"	1/4"	2"	_
34-2	10 1	1/2"	33/64"	1/4"	1/4"	2"	
34-2	14 11/	4" 1/2"	45/64"	3/8"	1/4"	2"	













Rounding Over Bit

I

В

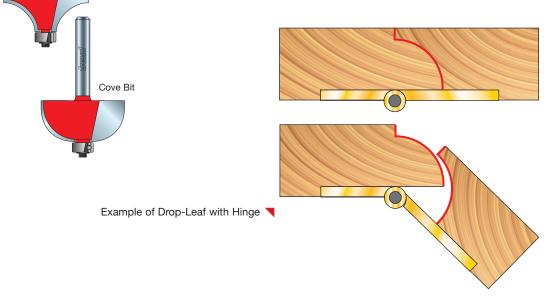
D



Application: Mating edge profiles for drop-leaf tables

- Produce the special mating edge profiles for drop-leaf tables with this set, which includes one rounding over bit and one cove bit.
- Cuts all compostion materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

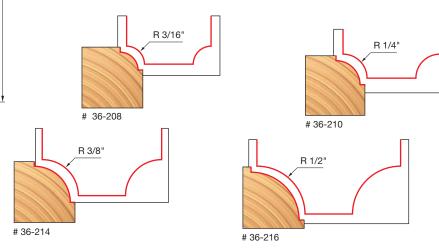
Set Item Number	Table Top Thickness	Bit Item #	Rounding Over Bit Item #	Shank Dia.
33-106	3/4"	30-106	34-116	1/4"
33-116	3/4"	30-114	34-126	1/2"



Application: Attractive profile for furniture and millwork

- These beading bits create an attractive bead profile for furniture and millwork. Remove the steel pilots to produce a traditional beaded groove.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

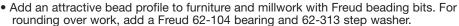
Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
36-208	7/8"	3/8"	1/2"	3/16"	1/4"	2"
36-210	1"	3/8"	3-3/64"	1/4"	1/4"	2"
36-214	1-1/4"	3/8"	4-5/64"	3/8"	1/4"	2"
36-216	1-1/2"	3/8"	4-9/64"	1/2"	3/8"	2-1/2"

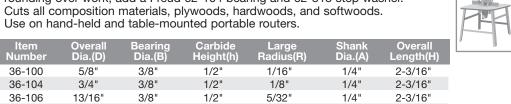




Beading Bits

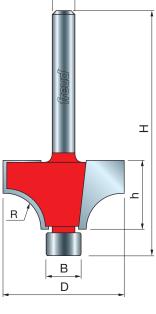
Application: Decorative edges and rounded edges

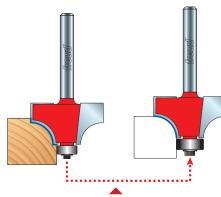






1-3/4"



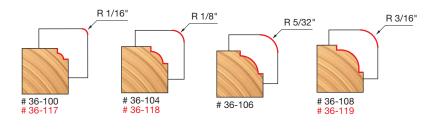


36-140

3-1/2"

3/8"

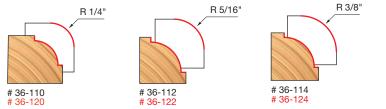
By simply ordering the 1/2" Ball Bearing #62-104 and 1/2" Step Washer #62-313 you will be able to obtain a different profile.

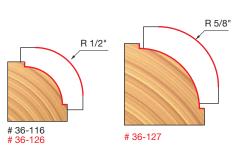


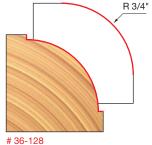
1-1/2"

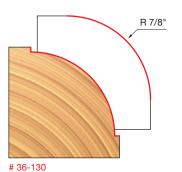
1/2"

3-5/8"



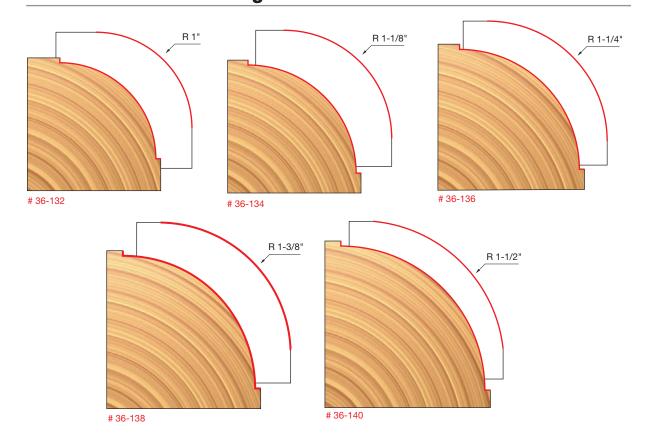








Beading Bits (Continued)



Convex Edge Bit

Numbe 99-019

Application: Shallow bull nose profile for edging

Height(h

1-5/8"

- This bit creates a soft, gently rounded edge on any project or use this bit to plunge route internal cut-outs for use as hand-holds.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

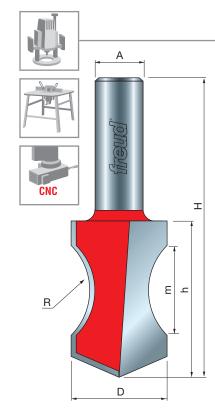
Height(m

7/8"

Large Radius(R

39/64"

# 99-019	R 39/64"
	Example of interior cut-out for use as a hand-hold.



Overall

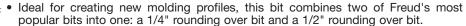
Length(H)

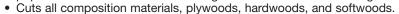
3-1/16"

1/2"

Combination Rounding Over Bit

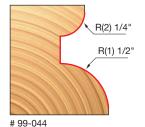
Application: Decorative moldings and furniture edges

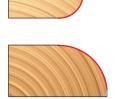




Use on hand-held and table-mounted portable routers.





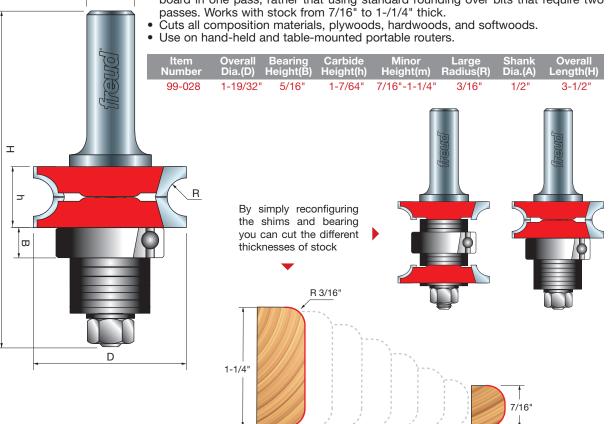






Application: Rounding two edges in one pass

• The Freud variable corner round bit saves you time by rounding both edges on a board in one pass, rather that using standard rounding over bits that require two passes. Works with stock from 7/16" to 1-/1/4" thick.



99-028







CNC



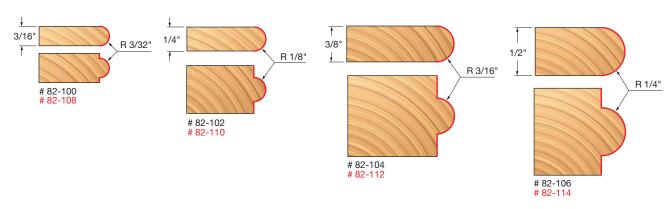
I

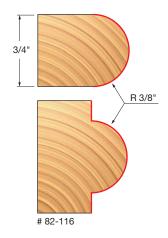
D

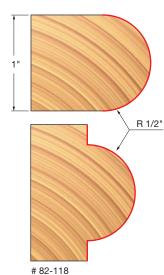
Application: Bull nose profile for furniture and moldings

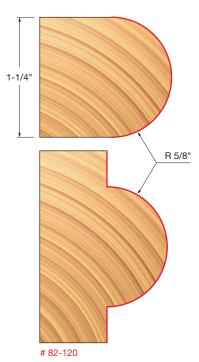
- Produce a fully rounded edge on dimensional lumber or create an attractive half-round profile on furniture and moldings with this bit. Guiding device must be
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
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"



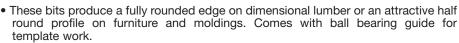


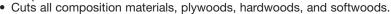


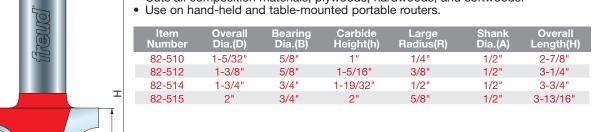


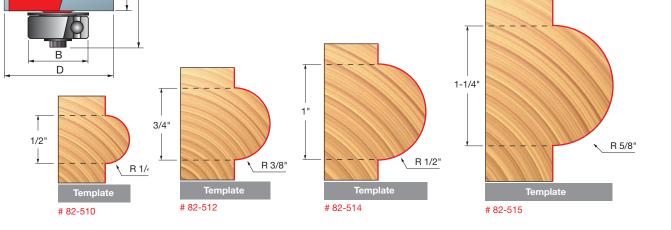
Half Round Bits with Bearings

Application: Versatile rounded edge for furniture and moldings







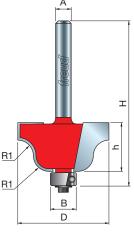


Decorative Edge Bits

Application: Decorative edging for cabinets, molding and furniture

- · Add distinctive design to cabinets, furniture, plaques, and millwork with these decorative edging bits.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted routers.





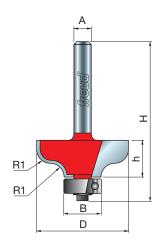
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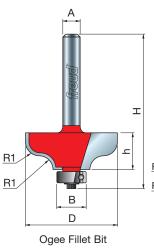
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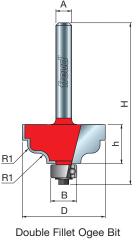
Decorative Edge Bits

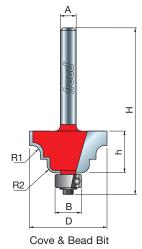


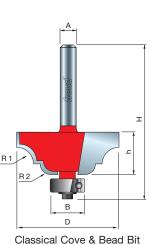
Ogee Bit

_									
	Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Large Radius(R1)	Small Radius(R2)	Minor Height(m)	Shank Dia.(A)	Overall Length(H)
	Double Fil	let Ogee E	Bit						
	38-452	1-1/4"	3/8"	19/32"	1/8"	-	-	1/4"	2-3/16"
	99-003	1-3/8"	3/8"	9/16"	11/64"	_	_	1/2"	2-5/16"
	Cove & Be	ead Bits							
	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	1-5/32"	3/8"	5/8"	1/8"	_	7/32"	1/2"	2-9/16"
	38-314	1-9/16"	3/8"	23/32"	1/4"	_	7/32"	1/2"	2-3/4"
	99-009	1-3/8"	3/8"	9/16"	13/64"	_	7/32"	1/2"	2-3/8"
	Classical (Cove & Be	ad Bits						
	38-352	1-1/2"	1/2"	5/8"	1/4"	5/32"	-	1/4"	2-1/4"
	38-362	1-1/2"	1/2"	5/8"	1/4"	5/32"	_	1/2"	2-1/2"
	Classical I	Bold Cove	& Round	Bits					
	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"
	Classical I	Bold Cove	& Bead E	Bits					
	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"
	Classical (Cove & Ro	und Bits						
	38-602	1-1/8"	1/2"	1/2"	5/32"	-	5/64"	1/4"	2-5/16"
	38-612	1-1/8"	1/2"	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	1-3/8"	1/2"	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	1-1/8"	3/8"	1/2"	5/32"	_	5/64"	1/2"	2-9/16"
	38-713	1-3/8"	3/8"	3/4"	1/4"	3/16"	5/64"	1/4"	2-1/4"



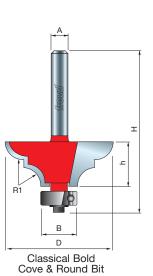


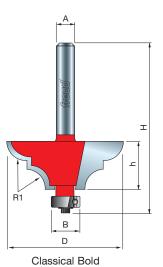




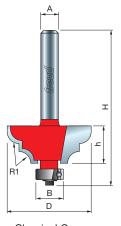
D

Classical Roman Ogee Bit





Cove & Bead Bit



Classical Cove & Round Bits

All Profile Drawings 1:1 Scale

(Continued) Decorative Edge Bits









D

Flute Bits

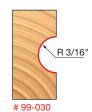
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Application: Chippendale style furniture

- These bits include double bearings to create a fluted design for chair legs and moldings. Ideal for the production of Chippendale style furniture.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- · Use on hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
99-029	11/8"	7/8"	7/8"	1/8"	1/2"	3"
99-030	11/4"	7/8"	7/8"	3/16"	1/2"	3"



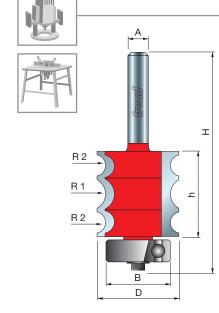


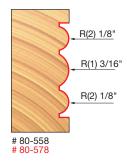
Triple Beading Bits

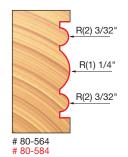
Application: Ornate multiple beads for decorative molding

- · Create three beads in one pass for decorative molding and furniture with these bits from Freud.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Large Radius(R1)	Small Radius(R2)	Shank Dia.(A)	Overall Length(H)
80-558	15/16"	3/4"	1"	3/16"	1/8"	1/4"	2-5/8"
80-564	15/16"	3/4"	1"	1/4"	3/32"	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"







Triple Beading & Fluting Bits

Application: Columns, posts and decorative moldings

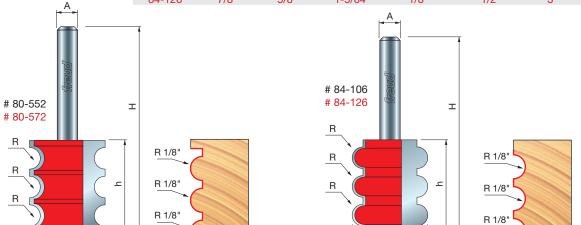
- Enhances moldings and furniture with multiple beads and fluting.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.



CNC

Iter Num			Carbide Height(h)		Shank) Dia.(A)	Overall Length(H)
80-5	52 7/8"	5/8"	1-5/64"	1/8"	1/4"	2-3/4"
80-5	72 7/8"	5/8"	1-5/64"	1/8"	1/2"	3-1/8"
84-1	06 7/8"	5/8"	1-5/64"	1/8"	1/4"	2-5/8"
9/1	26 7/9"	5/Q"	1 5/6/1	1/0"	1/0"	2"







Bold Classical Bit

80-522

Application: Chair rails and other decorative millwork

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

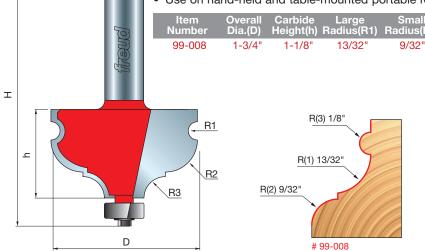
В

Cuts all composition materials, plywoods, hardwoods, and softwoods.

1/8"

1/2"

Use on hand-held and table-mounted portable routers.





84-106 # 84-126





В

D



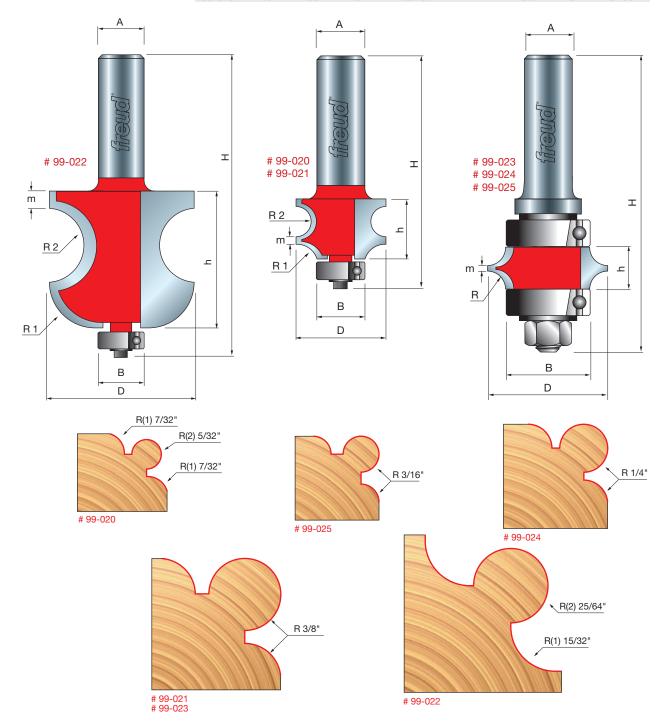


Corner Beading Bits

Application: Beams, posts, railings and fine furniture

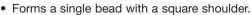
- Adds an attractive bead to beams, posts, railings, and millwork.
- Ideal for accenting square table legs.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Large Radius(R1)	Small Radius(R2)	Minor Height(m)	Shank Dia.(A)	Overall Length(H)
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"



Traditional Beading Bits

Application: Matching moldings in historic homes



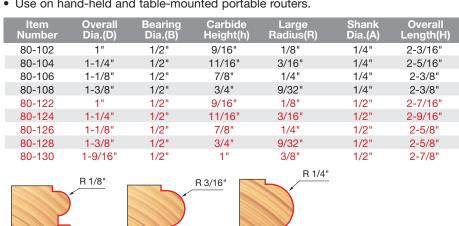
I

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В D



- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.



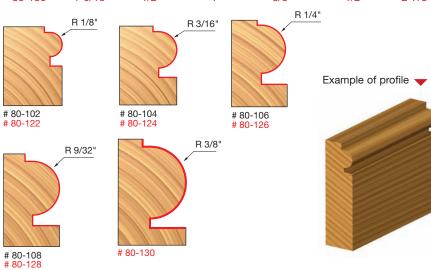




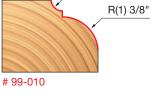


Table Top Classical Bit

Application: Ornamental edge for tables and desks

- Ideal for enhancing the beauty of the wood found in occasional and dining room tables.

		Use on hard						twoods.	
		Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Large Radius(R1)	Small Radius(R2)	Shank Dia.(A)	Overall Length(H
I		99-010	1-1/2"	1/2"	9/16"	3/8"	1/8"	1/2"	2-1/2"
	R2	R1			X	R(2) 1/8" R(1)	3/8"		





В D

40-114

Table Top Classical Bold Bit

Application: Decorative edge for tables and desks

- Designed with sharp curves to generate a strong, uplifting edge.
- Creates a bold effect on furniture of all types.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- on hand-held and table-mounted portable route

		<u>.</u>	• Use on	nand-neid	and table	-mounted p	portable rout	ers.		
			Item Numbe	Overall r Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Large Radius(R1)	Small Radius(R2)	Shank Dia.(A)	
I			99-011	1-5/8"	1/2"	5/8"	25/64"	11/64"	1/2"	
	د	В	R1	<u>2</u>	4	99-011	R(2) 11/64" R(1) 25	/64"		
		D D	1							

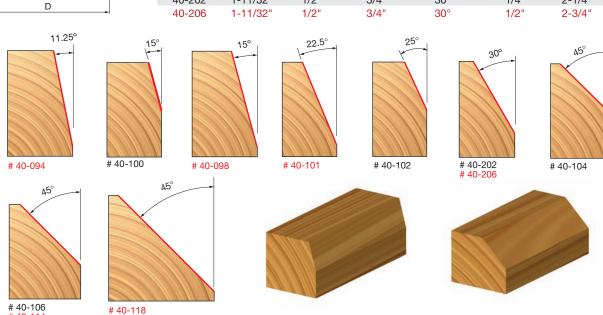


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Application: For multiple-sided projects, joinery, and easing edges

- · 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.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Angle (d)	Shank Dia.(A)	Overall Length(H)
40-094	7/8"	1/2"	1"	11-1/4°	1/2"	2-3/4"
40-098	1"	1/2"	1"	15°	1/2"	1"
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	1-3/4"	1/2"	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"



2-1/2"

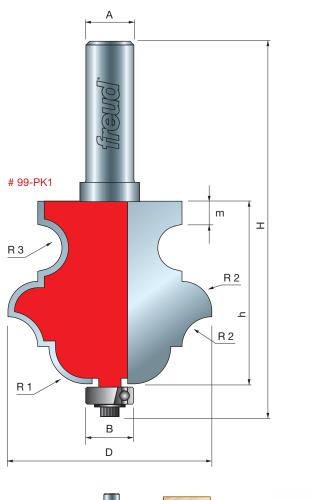
Multi-Profile Bits

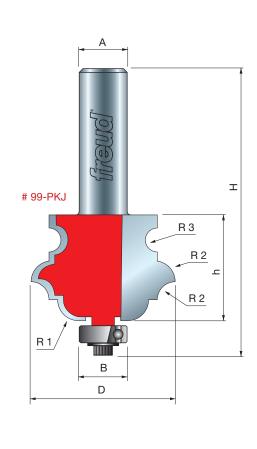
Application: One bit produces numerous designs for face, corner and crown molding

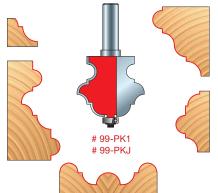


- Produce an endless number of profile designs by varying the height and fence settings and making
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

				-					
Item Number	Overall Dia.(D)	Small Dia.(n)	Carbide Height(h)	Minor Height(m)	Large Radius(R1)	Small Radius(R2)	Small Radius(R3)	Shank Dia.(A)	
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"

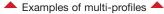






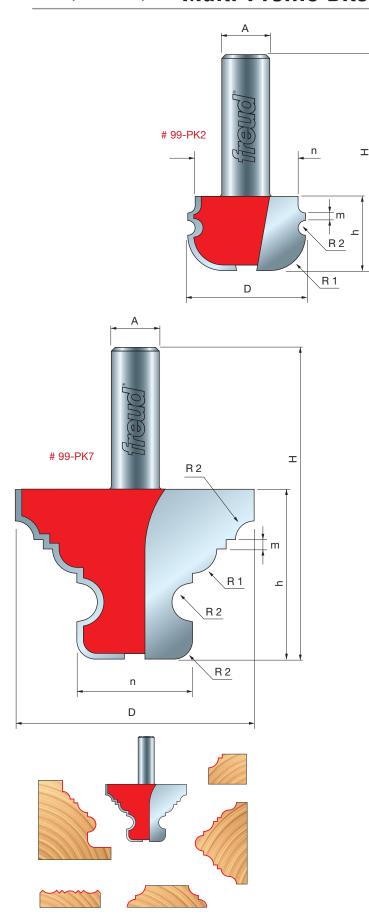


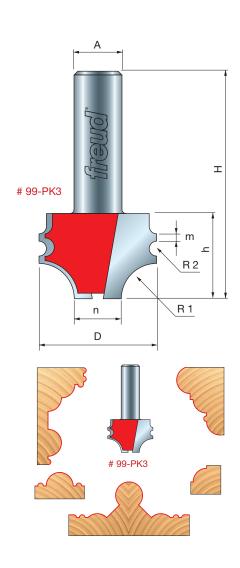












99-PK2

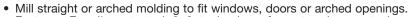
New Architectural Molding Series Bits



Freud's new series of architectural molding router bits is ideal for renovators, remodelers, or woodworkers who need to mill a perfect match to standard molding designs. Besides matching the most common molding profiles, these bits provide the flexibility to mill casing, chair rail, base cap, brick molding and more from precisely the right wood species required by the project. That means professionals and homeowners can save the cost of ordering expensive custom-milled molding for special projects, and save the time and aggravation of searching from lumber yard to lumber yard for the right shape, style and species.

Brick Molding Bit

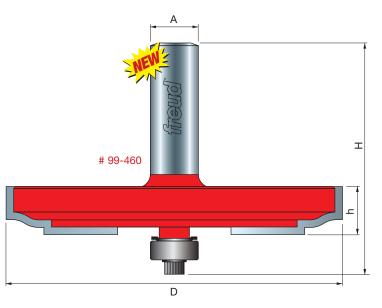
Application: Creates industry standard Brick Molding profile #180



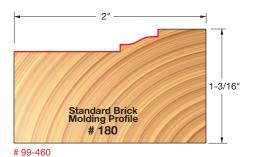
- Features Freud's patented 2+2 technology for extra-clean cuts in crossgrain applications.
- Use with hardwood or softwood to mill stain grade molding.
- Use with table-mounted portable routers.

Note: For best results make two or more passes

Architectural			•			
	Item	Profile	Overall	Carbide	Shank	Overall
Molding	Number	Design	Dia.(D)	Height(h)	Dia.(A)	Length(H)
Series 🖼	99-460 Bri	ck Molding #180	3-1/2"	1/2"	1/2"	3"















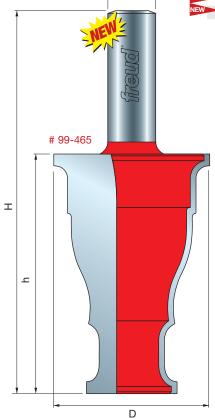
Casing Bits

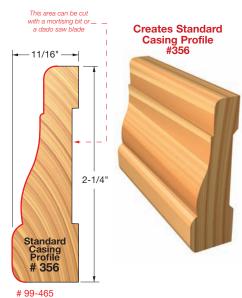
Application: Creates industry standard casing profiles #356, #366, #376, and #445

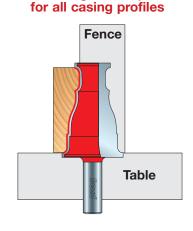
- Perfectly match four standard door casing designs with your choice of wood.
- Add elegant detail to doors, windows, built-ins and many other projects.
- Use with hardwood or softwood to mill stain grade molding.
- Use with table mounted, CNC or automatic routers.

Note: For best results make two or more passes.

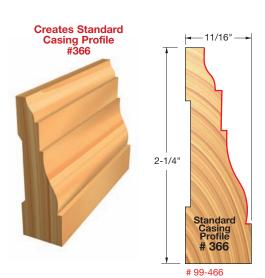
	Item Number	Profile Design	Overall Dia.(D)	Carbide Height(h)	Shank Dia.(A)	Overall Length(H)
EW	99-465	Casing #356	1-5/8"	2-1/2"	1/2"	4"
EW	99-466	Casing #366	1-1/2"	1-13/16"	1/2"	3-9/32"
EW	99-467	Casing #376	1-5/8"	1-15/16"	1/2"	3-7/16"
EW	99-468	Casing #445	1-1/2"	2-7/8"	1/2"	4-3/8"

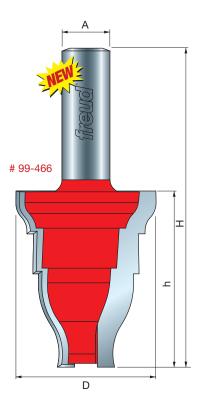




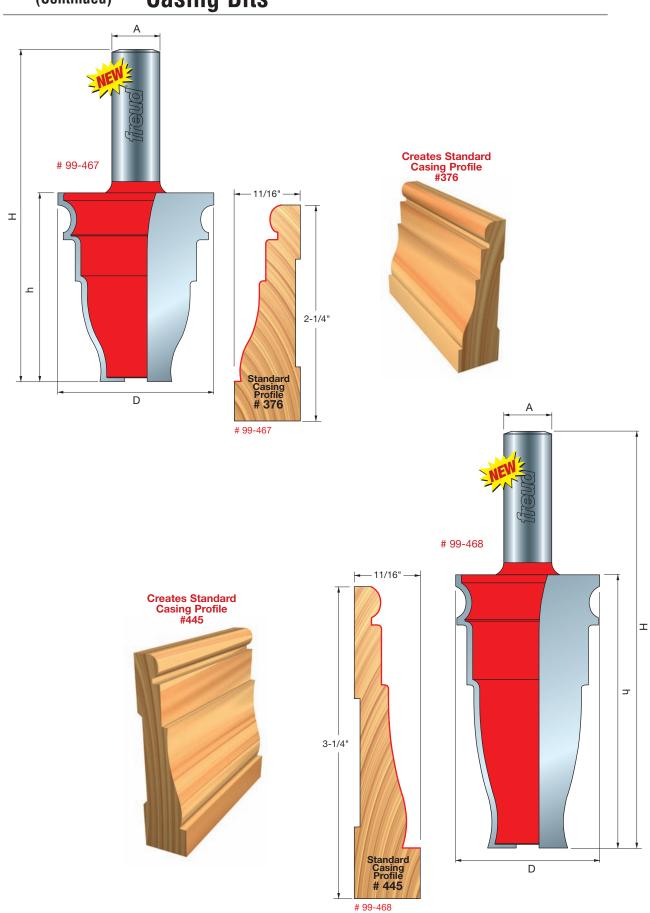


Routing Technique





All Profile Drawings 1:1 Scale









Architectural Molding Series

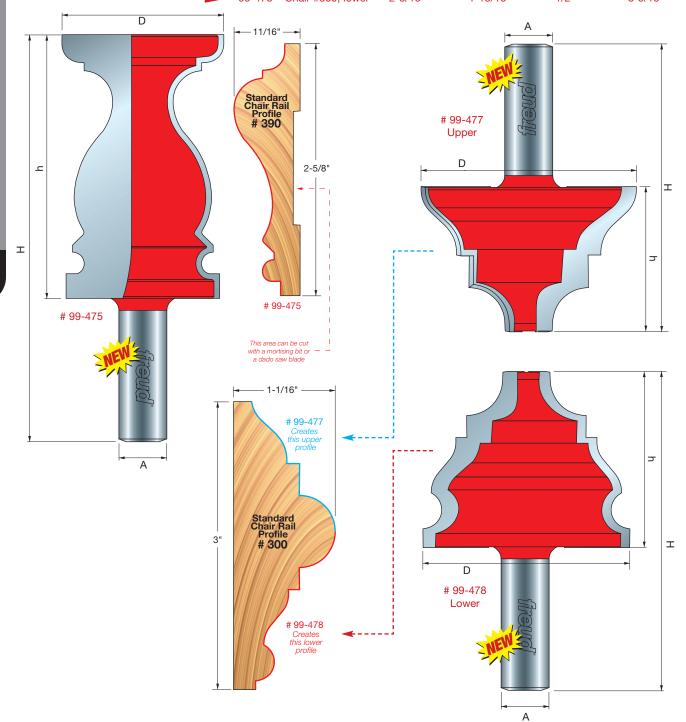
Chair Rail Bits

Application: Creates standard decorative chair rail profiles as well as beautiful panel moldings

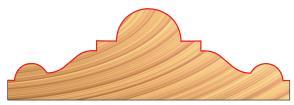
- Chair Rail adds a beautiful horizontal detail to any room in the home or office.
- Choose your favorite wood, and perfectly match two very popular chair rail designs.
- Use with hardwood or softwood to mill stain grade molding.
- Bits for chair #300 can also be used by themselves for other profiles.
- Use with table mounted, CNC or automatic routers.

Note: For best results make two or more passes.

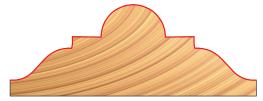
	Item Number	Profile Design	Overall Dia.(D)	Carbide Height(h)	Shank Dia.(A)	Overall Length(H)
۷	→ 99-475	Chair Rail #390	1-11/16"	2-3/4"	1/2"	4-1/4"
۷	99-477	Chair #300, upper	2-1/4"	1-1/2"	1/2"	3"
۷	99-478	Chair #300, lower	2-3/16"	1-13/16"	1/2"	3-5/16"





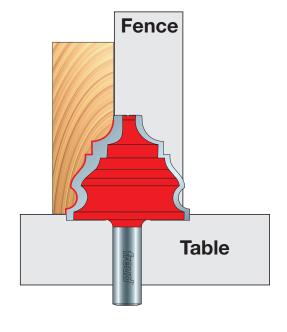




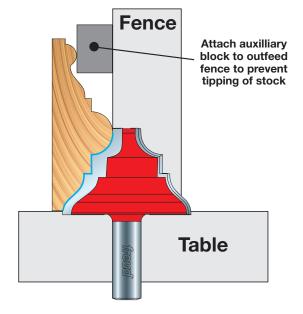


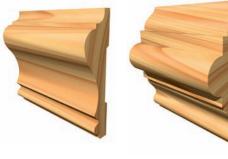
99-477 Also creates this profile

First Cut Using Bit #99-478



Second Cut Using Bit #99-477





99-475 (not to scale)



99-478

(not to scale)



99-477 (not to scale)









Series

Base and Cap Bits

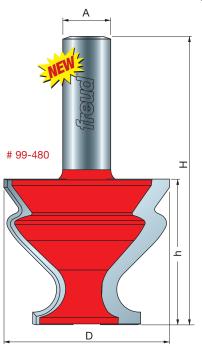
Application: Mill base or traditional "mop" boards in any width

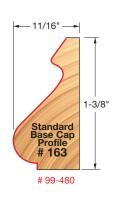
- Ideal for renovators who need to match old, extra-high base moldings.
- Bits can be used to rout base cap only, or to profile the edge of wide base molding.
- · Choose your favorite wood to suit the room.
- Use with hardwood or softwood to mill stain grade molding.
- Use with table mounted, CNC or automatic routers.

Note: For best results make two or more passes.

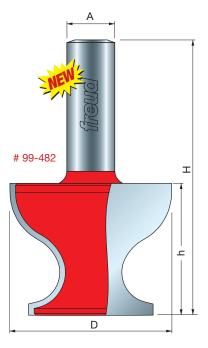
L	Item Number	Profile Design	Overall Dia.(D)	Carbide Height(h)	Shank Dia.(A)	Overall Length(H)
NEW	99-480	Base Cap #163	1-3/4"	1-1/2"	1/2"	3"
NEW	99-482	Base Cap #166	1-11/16"	1-1/2"	1/2"	2-7/8"
NEW	99-484	Base Molding*	1-11/16"	15/32"	1/2"	2-3/8"

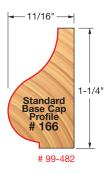
^{*} Base molding bit routs a variety of standard base profiles, including 618, 620, 622, 623, and 624.





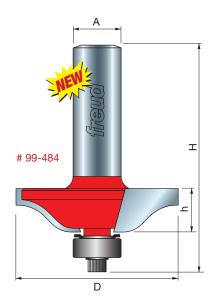


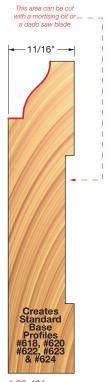












99-484





Beadboard Bit System

Application: Create beautiful wainscoting, paneling, back panels for bookcases, and much more

Freud's new Beadboard Tongue and Groove System mills perfect beadboard in a variety of thicknesses from 3/8" to 3/4", and in almost any width. Mill beadboard from any hardwood or softwood, and use it to create a beautiful effect as wainscoting, wall or ceiling paneling, cabinet and bookcase backs, and more. The tongue and groove bits includes two slot cutters: use the 1/4" cutter to mill a 1/4" thick tongue and groove for 1/2" to 3/4" stock, or switch to the 1/16" cutter for thinner material. Once the tongue and groove joints are complete, use the solid carbide Radius V-Groove Bit to complete the beadboard design.

- · 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.
- Use with any hardwood or softwood to match your project or décor.
- Use only with a table mounted router and fence.



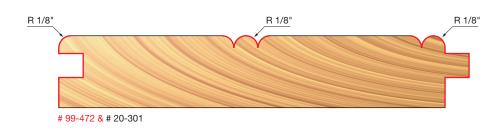
Architectural

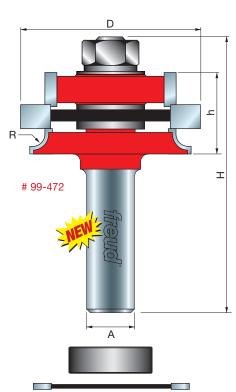
Molding

Series

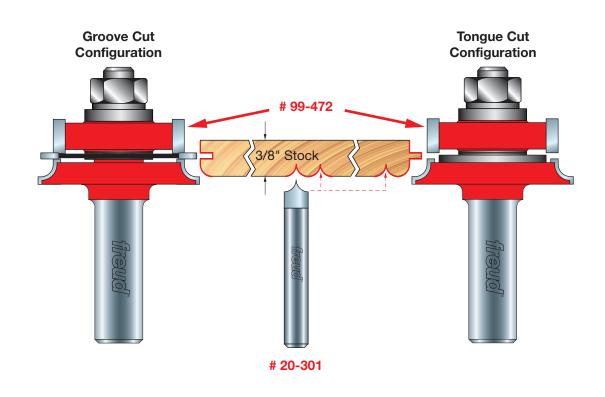
	Item Number	Description		Carbide Height(h)			Overall Length(H)
W	-20-301*	Radius V Groove Bit	1/4"	3/16"	1/8"	1/4"	1-3/4"
W	99-472	Beadboard Tongue & Groove Bit	1-7/8"	13/16"	1/8"	1/2"	2-7/8"

* Solid Carbide









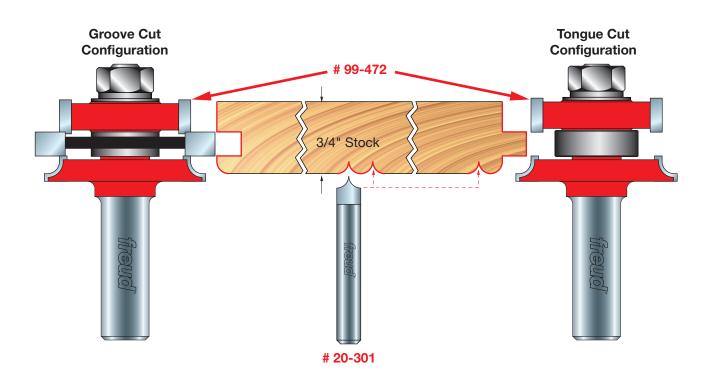


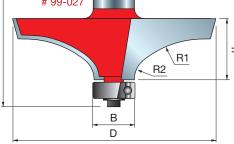


Table Edge & Handrail Bits

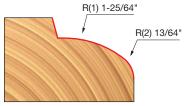
Application: Attractive edging of tables, plaques and handrails

- Produces sturdy, attractive handrails for staircases.
- Combine with another rail profile to create a custom railing design.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

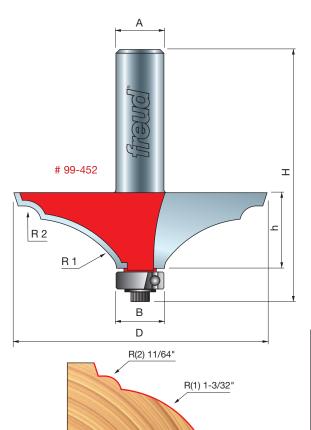
			Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Large Radius(R1)	Small Radius(R2)	Shank Dia.(A)	Overall Length(H)
		1	99-027	2-19/32"	1/2"	23/32"	1-25/32"	13/64"	1/2"	2-5/8"
			99-450	2-1/2"	1/2"	25/32"	3/8"	15/64"	1/2"	2-3/4"
			99-452	2-5/8"	1/2"	25/32"	1-3/32"	11/64"	1/2"	2-3/4"
:	# 99-027	ш								



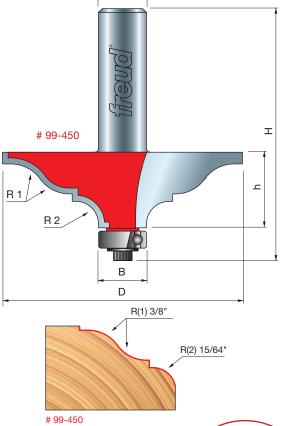
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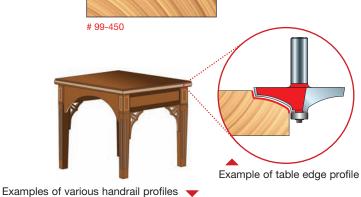


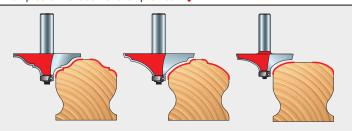




99-452



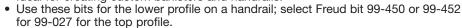




Handrail Bits

Application: Banisters and handrails

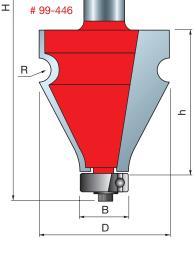




• Cuts all composition materials, plywoods, hardwoods, and softwoods.

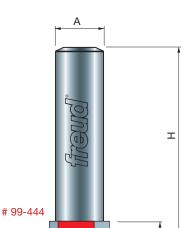
Use on hand-held and table-mounted portable routers.

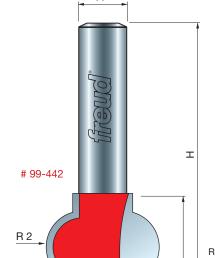




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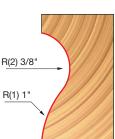


B D

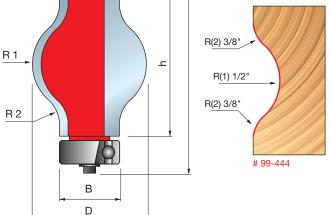
Red Item Numbers Indicate 1/2 " Shank

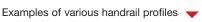
R 1

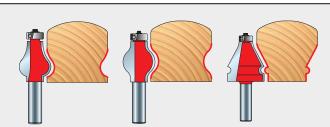
4



99-442









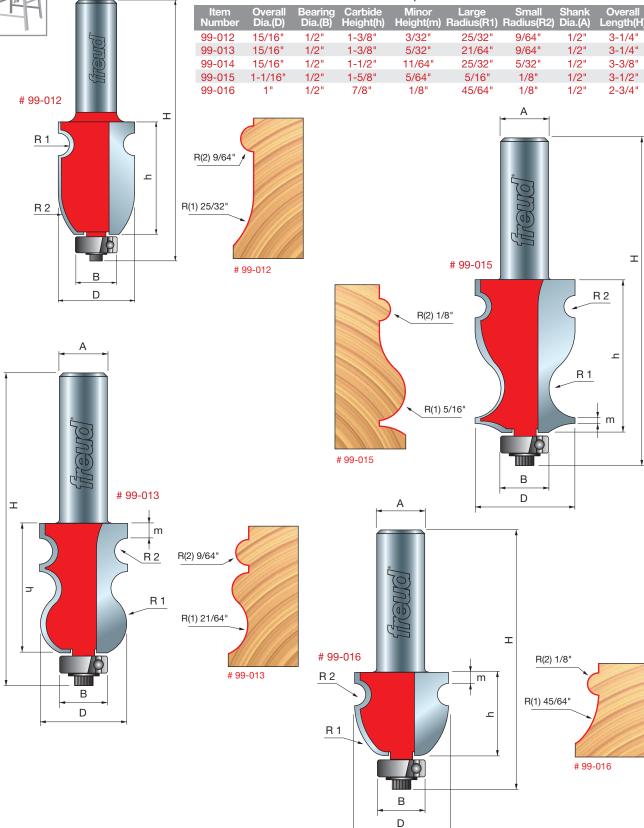


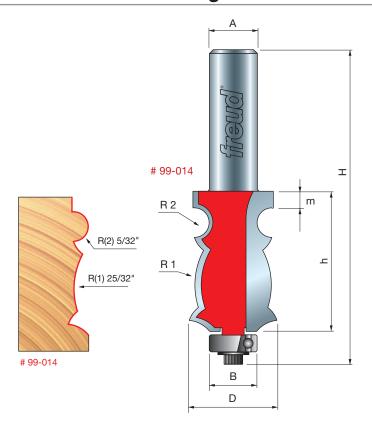
Face Molding Bits

Application: Door casings, trim, baseboards, and pilasters

- Add architectural detail to your furniture, cabinets and millwork.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.

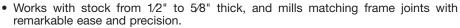
•	Use on	hand-held	and	tab	le-mount	ed	portal	ole	routers	3.
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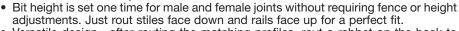




Reversible Wainscoting Bit







NEW MEN	 Versatile design—after routing the matching profiles, rout a rabbet on the back to accept the tongue of a raised panel in 3/4" stock. Cuts all composition materials, plywoods, hardwoods and softwoods. Use on hand-held and table-mounted portable routers. 									
	Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Large Radius(R)	Minor Height(m)	Shank Dia.(A)	Overall Length(H)		
Ξ	NEW 99-470	1-1/2"	1/2"	7/16"	1/4"	3/16"	1/2"	2-1/4"		
B	E R		# 99-		3 1/4"					
1/2 Mater	ra al			3/4" Material		4 99-515 or other ra	equires a rabbe	ting bit for the		



New Wide Crown Molding System

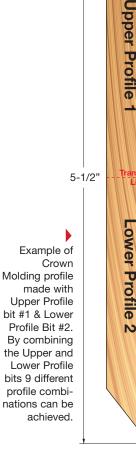
Application: Milling 5-1/2" wide Crown Molding for ceilings

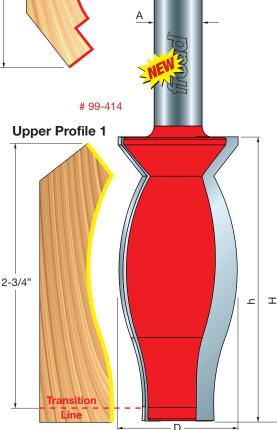
Crown molding is the perfect way to transform a room, giving height and elegance to an otherwise ordinary ceiling. But commercially manufactured wide crown molding is expensive, hard to find, and the selection of available wood species is very limited. Now, thanks to Freud's unique Wide Crown Molding bits, woodworkers can mill their own 5-1/2" wide Crown Molding economically and in their choice of wood and profile. These bits are the only router tooling capable of producing such wide crown molding, and they also feature a carefully designed shape that lets you mix and match profiles to produce precisely the shape you need - up to nine different profiles from only six bits!

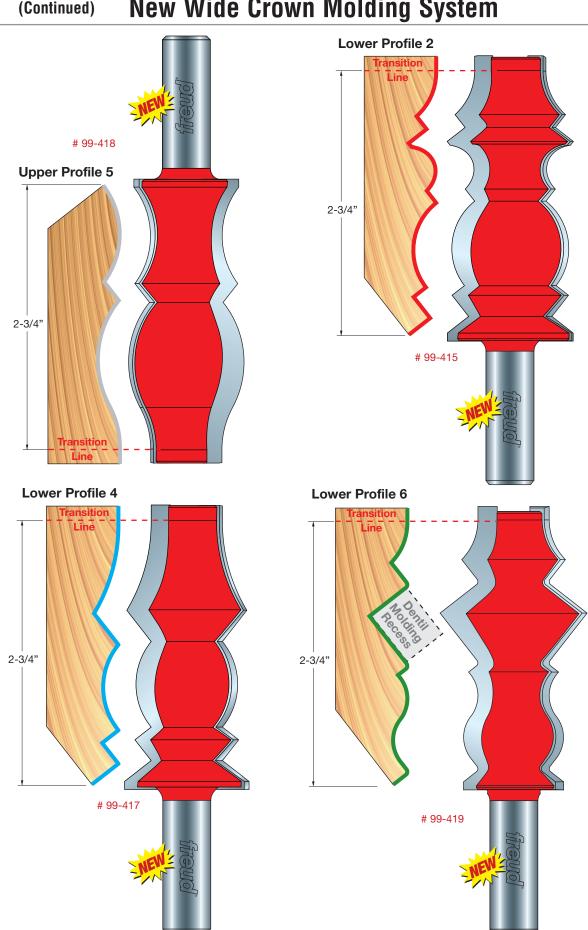
The concept is easy: each bit produces half of the molding profile. Three bits are designed for the upper half of the molding, and three produce the lower half. Each bit features a sweeping curve that transitions perfectly into the corresponding curve of the adjoining profile. Just select the upper and lower profiles that match your favorite design. Then use Freud's Molding Bevel Cutter to rout perfect 38° and 52° bevels on the stock to finish the job.

- Mill 5-1/2" wide crown molding from almost any hardwood or softwood.
- 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.
- st.

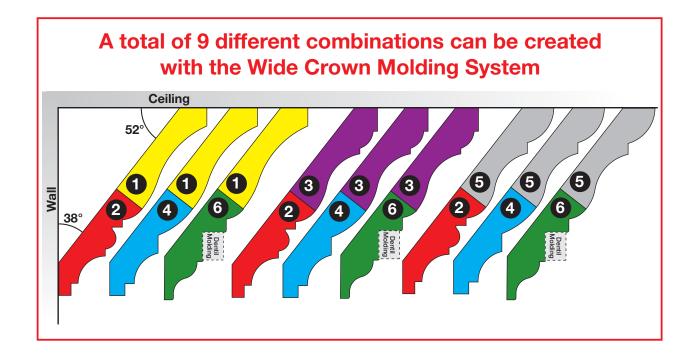
99-416 Upper 3 1-13/32" 3" 1/2" 4-7/16" 99-418 Upper 5 1-1/4" 3" 1/2" 4-7/16" Lower Profiles 1-3/8" 3-1/16" 1/2" 4-9/16" 99-415 Lower 4 1-3/8" 3-1/16" 1/2" 4-9/16" 99-417 Lower 4 1-3/8" 3-1/16" 1/2" 4-9/16" Molding Bevel Cutter 99-421 - 2-3/8" 1-3/8" 1/2" 2-13/16" A A	Use only inUse featherUse pusher	a router table boards and ho blocks or a pu	with minimum Id downs to ho sh stick to fee	6" high fence, r old stock down d stock. Make to	nill in 3 or mo & against the est cuts in sci	re passes. fence. rap stock first.
Upper Profiles 99-414	Item	Profile	Overall	Carbide	Shank	Overall
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" Lower Profiles 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" Molding Bevel Cutter 99-421 - 2-3/8" 1-3/8" 1/2" 2-13/16" 4 1-3/8" 1-3/8" 1/2" 4-9/16" Multiple Profile 3 # 99-416 Upper 3 1-13/2" 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" # 99-421 - 2-3/8" 1-3/8" 1/2" 2-13/16"			Dia.(D)	Height(h)	Dia.(A)	Length(H)
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" Lower Profiles 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" Molding Bevel Cutter 99-421 — 2-3/8" 1-3/8" 1/2" 2-13/16" A Upper Profile 3	Upper Profiles	i				
99-418 Upper 5 1-1/4" 3" 1/2" 4-7/16" Lower Profiles 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" Molding Bevel Cutter 99-421 – 2-3/8" 1-3/8" 1/2" 2-13/16" 4 99-416 Upper Profile 3	99-414		1-5/16"			4-7/16"
Lower Profiles 99-415						
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" 4-9/16"			1-1/4"	3"	1/2"	4-7/16"
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" Molding Bevel Cutter 99-421 - 2-3/8" 1-3/8" 1/2" 2-13/16" 4 99-416 Upper Profile 3						
99-419 Lower 6 1-3/8" 3-1/16" 1/2" 4-9/16" Molding Bevel Cutter 99-421 - 2-3/8" 1-3/8" 1/2" 2-13/16" 4 99-416 Upper Profile 3		Lower 2	1-3/8"			4-9/16"
Molding Bevel Cutter 99-421 - 2-3/8" 1-3/8" 1/2" 2-13/16" # 99-416 Upper Profile 3 2-3/4"		Lower 4				
99-421 – 2-3/8" 1-3/8" 1/2" 2-13/16" # 99-416 Upper Profile 3 2-3/4"			1-3/8"	3-1/16"	1/2"	4-9/16"
# 99-416 Upper Profile 3 2-3/4"		Cutter				
# 99-416 Upper Profile 3 2-3/4"	99-421	-	2-3/8"	1-3/8"	1/2"	2-13/16"
	14		<u>u</u>			
			l ï	4" Transition		

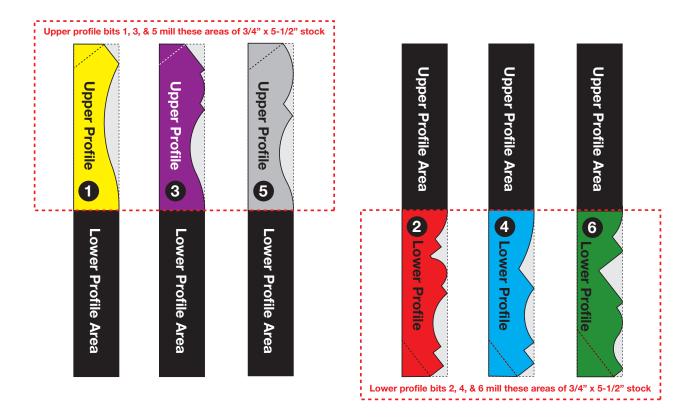


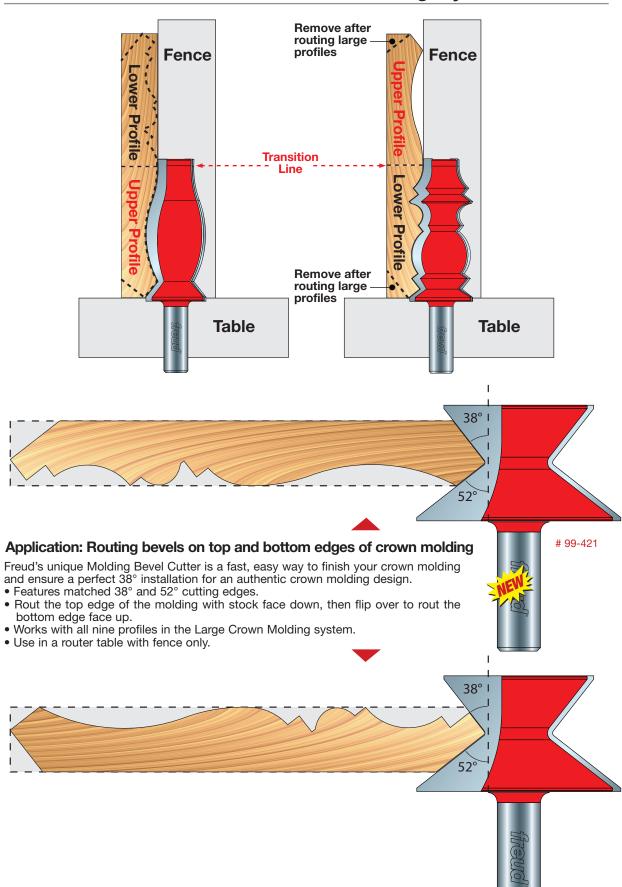


















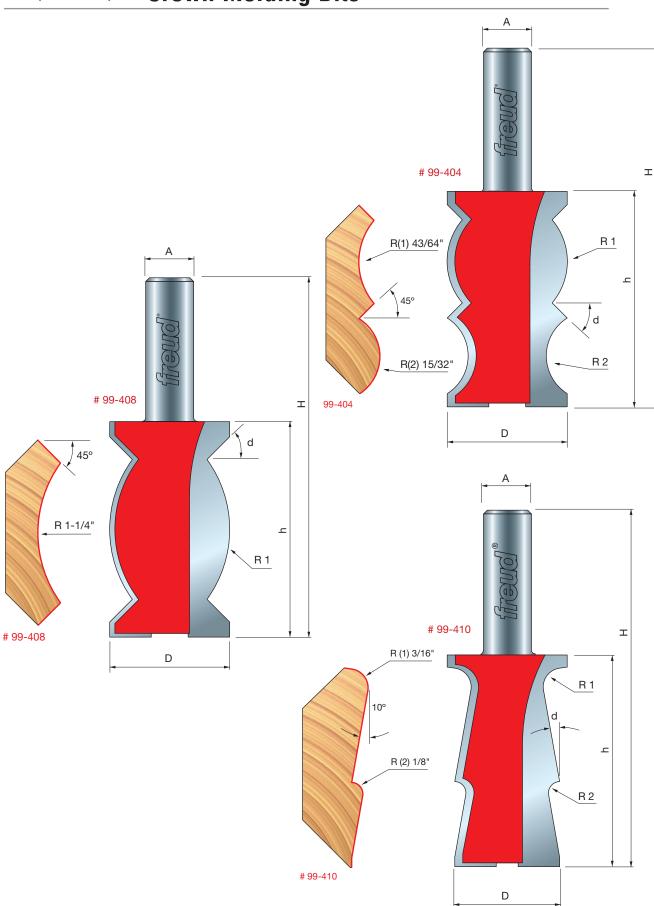
Crown Molding Bits

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.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers and table-mounted portable routers.

		Α	Item Number 99-402 99-404	Overall Dia.(D) 1-1/4" 1-1/4"	Carbide Height(h) 2-1/4" 2-1/4"	Large Radius(R1) 17/32" 43/64"	Small Radius(R2) 7/32" 15/32"	Angle (d) 45° 45°	Shank Dia.(A) 1/2" 1/2"	Overall Length(H 3-3/4" 3-3/4"
-	# 99-402	fraud.	99-406 99-408 99-410	1-1/4" 1-1/4" 1-1/4"	2-1/4" 2-1/4" 2-1/4"	25/64" 1-1/4" 3/16"	- - 1/8"	45° 45° 10°	1/2" 1/2" 1/2" 1/2"	3-3/4" 3-3/4" 3-3/4"
Ξ.		D	R1 R2	R(1) 17/3 45° R(2) 7/32"		402		A		*
					# 99-406	R 25/		omerij.	R 1	





CNC

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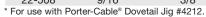
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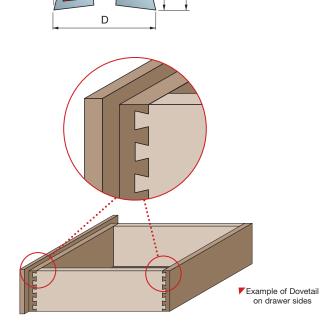
D

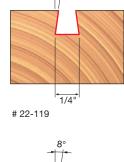
Application: Strong, attractive joints for drawers and boxes

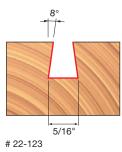
- Compatible with popular dovetail jigs, these bits produce smooth, intricate dovetail joints.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

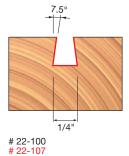
	Item Number	Overall Dia.(D)	Carbide Height(h)	Angle (d)	Shank Dia.(A)	Overall Length(H)
	22-100	1/4"	5/16"	7-1/2°	1/4"	2"
	22-101	5/16"	3/8"	9°	1/4"	1-7/8"
	22-102	3/8"	3/8"	9°	1/4"	1-7/8"
	22-103	3/8"	3/8"	14°	1/4"	2-1/2"
	22-104	1/2"	1/2"	14°	1/4"	1-7/8"
	22-105	5/8"	7/8"	7°	1/4"	2-1/8"
	22-106	3/4"	7/8"	7°	1/4"	2-1/8"
	22-119	1/4"	1/4"	8°	1/4"	2"
	22-120	3/8"	1/2"	8°	1/4"	2-1/2"
	22-121	7/16"	5/8"	8°	1/4"	2-3/8"
	22-122	1/2"	13/16"	8°	1/4"	2-3/4"
	22-123	5/16"	3/8"	8°	1/4"	1-7/8"
	22-124	1/2"	1/2"	14°	1/4"	2-5/8"
	22-125	1/2"	5/8"	10°	1/4"	2-3/8"
	22-126	9/16"	3/8"	14°	1/4"	2"
	22-128	3/4"	7/8"	14°	1/4"	2-3/8"
	22-129	1/2"	13/32"	8°	1/4"	2-5/32"
	22-107	1/4"	5/16"	7-1/2°	1/2"	2-5/8"
	22-108	5/16"	3/8"	9°	1/2"	2-1/8"
	22-110	3/8"	3/8"	9°	1/2"	2-1/4"
	22-112	1/2"	1/2"	14°	1/2"	2-1/4"
	22-113	5/8"	7/8"	7°	1/2"	2-5/8"
	22-114	3/4"	7/8"	7°	1/2"	2-5/8"
IEW	22-115*	17/32"	25/32"	7°	1/2"	2-3/8"
	22-130	11/16"	1"	8°	1/2"	3-1/8"
	22-132	13/16"	1-1/4"	8°	1/2"	3-3/8"
	22-134	3/4"	3/4"	14°	1/2"	3-1/8"
	Top Bearing Do	ovetail				
	22-505	5/8"	7/8"	7°	1/4"	2-5/8"
	22-506	3/4"	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"
	* For use with Po	rter-Cable® Dove	tail Jig #4212.			











22-101 # 22-108

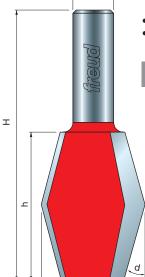












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Butterfly Spline Bit

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.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

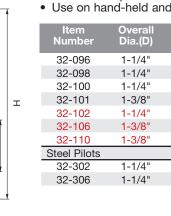
Item	Overall	Small	Carbide	Angle	Shank	Overall
Number	Dia.(D)	Dia.(n)	Height(h)	(d)	Dia.(A)	Length(H)
24-106	1-1/8"	11/16"	1-3/4"	14°	1/2"	3-1/4"



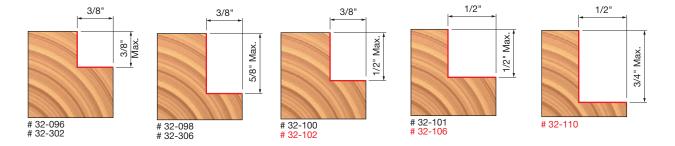
Rabbeting Bits

Application: Joining boards and letting in back panels

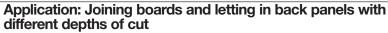
- · Produces super smooth cuts on both surfaces of the rabbet.
- Steel pilots can be removed from bits and used with edge guides for wider rabbets.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

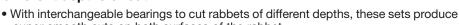


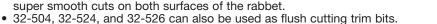
Item Number	Overall Dia.(D)	Bearing Dia.(B)	Cut Depth(C)	Carbide Height(h)	Shank Dia.(A)	Overall Length(H)
32-096	1-1/4"	1/2"	3/8"	3/8"	1/4"	2"
32-098	1-1/4"	1/2"	3/8"	5/8"	1/4"	2-1/4"
32-100	1-1/4"	1/2"	3/8"	1/2"	1/4"	2"
32-101	1-3/8"	3/8"	1/2"	1/2"	1/4"	2-1/4"
32-102	1-1/4"	1/2"	3/8"	1/2"	1/2"	2-1/4"
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"



Rabbeting Bits with Bearing Set



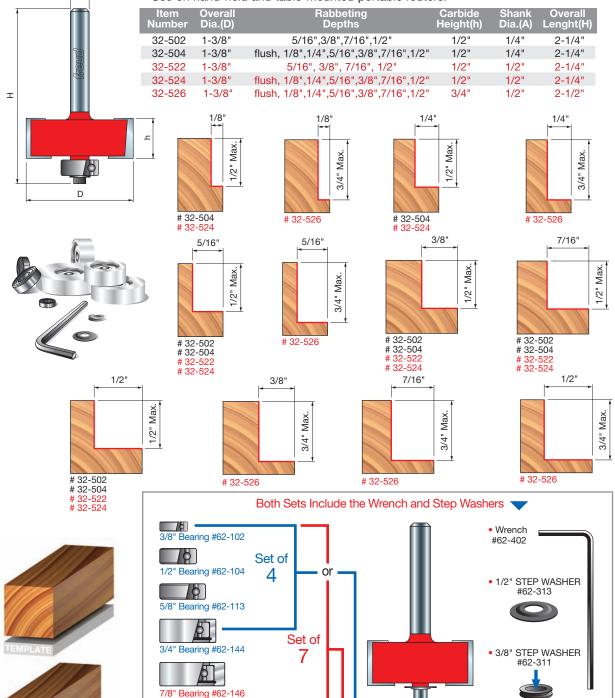




Wrench included.

Cuts all composition materials, plywoods, hardwoods, and softwoods.

Use on hand-held and table-mounted portable routers.









__ 3/8"-

Supplied 3/8" STEP WASHER to use when mounting 3/8" ball bearing only.

1-1/8" Bearing #62-148

1-3/8" Bearing #62-150





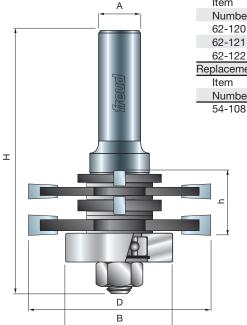


Stacked Slotting Set

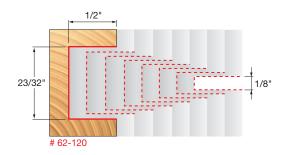
Application: Producing grooves 1/8" to 23/32" wide

- 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.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

Number	Dia.(D)	neignt(n)	Dia.(A)	Lengin(n)
61-102	2"	1/8"-23/32"	1/2"	3-1/4"
Replacement B	earings			
Item	Bearing	Cut		
Number	Dia.(B)	Depth		
62-120	1"	1/2"		
62-121	1-1/4"	3/8"		
62-122	1-1/2"	1/4"		
Replacement C	utters			
Item	Overall	Carbide		
Number	Dia.	Height		
54-108	2"	1/8"		

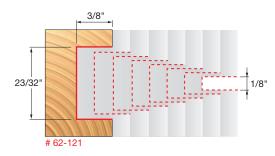






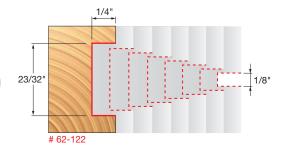










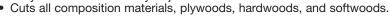


62-122 (1-1/2" Bearing)

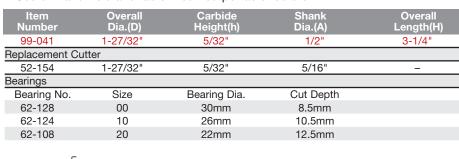
Biscuit Joining Set

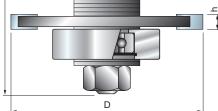
Application: Creating perfect slots for biscuit joining





• Use on hand-held and table-mounted portable routers.





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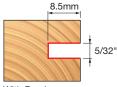
Examples of various joint configurations



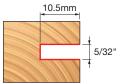
62-128 (30mm Bearing)



62-124 (26mm Bearing)

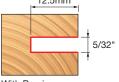


With Bearing # 62-128



With Bearing # 62-124





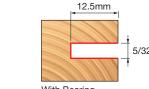
With Bearing # 62-108



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



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



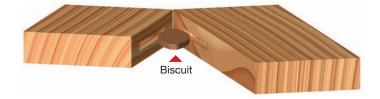


59mm x 22mm 2-3/8" x 7/8"



62-108

(22mm Bearing)

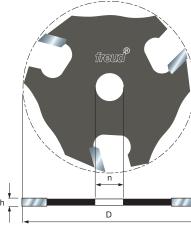










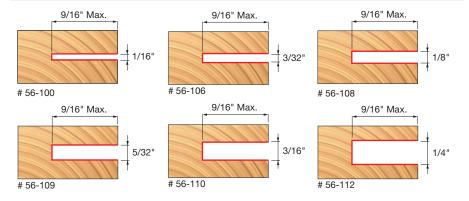


Three Wing Slotting Cutters

Application: Producing slots and grooves for T-moldings, spline joints, tongue & groove joints and many other applications

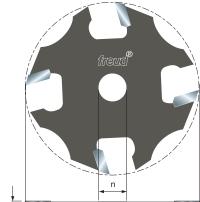
- Should be used with Freud's slotting cutter arbors 60-100 for 1/4" shanks and 60-102 for 1/2" shanks.
- Compatible with 62-108 bearing.
- Cutter 56-109 can be used for biscuit joining.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

Item Number	Overall Dia.(D)	Number of Cutters	Bore Dia.(n)	Carbide Height(h)
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"









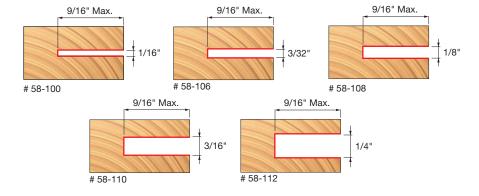
D

Four Wing Slotting Cutters

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.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

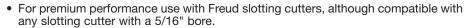
Item Number	Overall Dia.(D)	Number of Cutters	Bore Dia.(n)	Carbide Height(h)
58-100	2"	4	5/16"	1/16"
58-106	2"	4	5/16"	3/32"
58-108	2"	4	5/16"	1/8"
58-110	2"	4	5/16"	3/16"
58-112	2"	4	5/16"	1/4"



freud

Slotting Cutter Arbors

Application: Producing smooth, precise, accurate slots

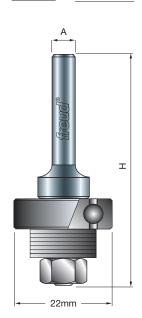


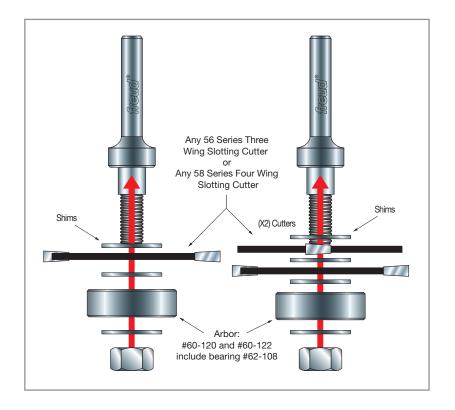
• Use on hand-held and table-mounted portable routers.

Item Number	Arbor Dia.(D)	Stud Height(h1)	Arbor Height(h2)	Shank Dia.(A)	Overall Length(H)
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"

^{*} Includes bearing # 62-108



















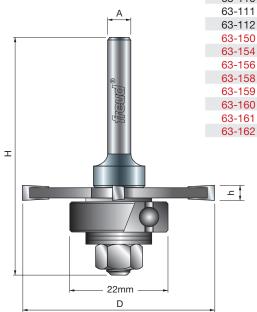


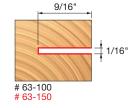
Slotting Cutter Sets

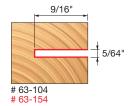
Application: Producing slots and grooves 9/16" deep for T-moldings, Spline Joints, Tongue & Groove Joints, and other applications

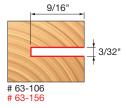
- Includes three wing slotting cutter, arbor and ball bearing.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

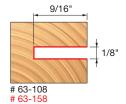
- 11		J.G(J)			(,	
	63-100	2"	1/16"	9/16"	1/4"	2-3/8"
	63-104	2"	5/64"	9/16"	1/4"	2-3/8"
	63-106	2"	3/32"	9/16"	1/4"	2-3/8"
	63-108	2"	1/8"	9/16"	1/4"	2-3/8"
	63-109	2"	5/32"	9/16"	1/4"	2-3/8"
	63-110	2"	3/16"	9/16"	1/4"	2-3/8"
	63-111	2"	15/64"	9/16"	1/4"	2-3/8"
	63-112	2"	1/4"	9/16"	1/4"	2-3/8"
	63-150	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"

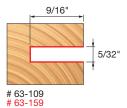


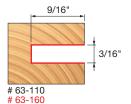


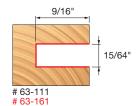


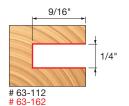








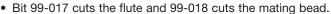




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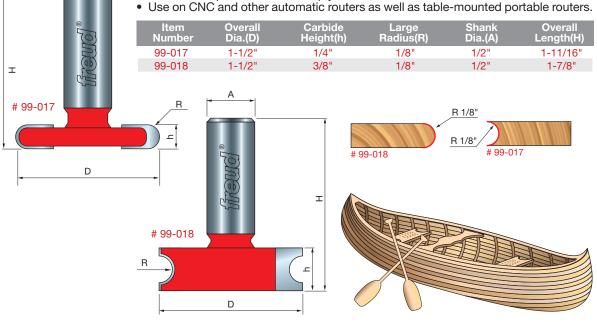
Canoe Joint Bits

Application: Producing joints for projects such as circular planters and canoes



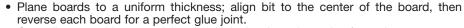
Cuts all composition materials, plywoods, hardwoods, and softwoods.





Reversible Glue Joint Bit

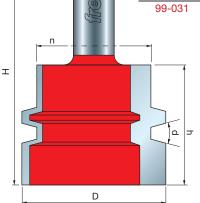
Application: Providing a stronger joint by increasing the surface area for glue

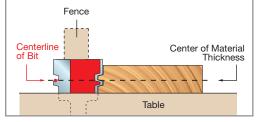


• Cuts all composition materials, plywoods, hardwoods, and softwoods.

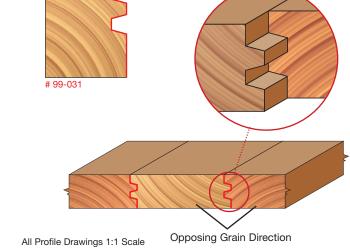
• Use on CNC and other automatic routers, as well as table-mounted portable routers.

portable it	portable routers.											
Item Number	Overall Dia.(D)	Small Dia.(n)	Carbide Height(h)	Angle (d)	Shank Dia.(A)	Overall Length(H)						
99-031	1-1/2"	1-3/16"	1-1/4"	30°	1/2"	2-3/4"						





Red Item Numbers Indicate 1/2 " Shank



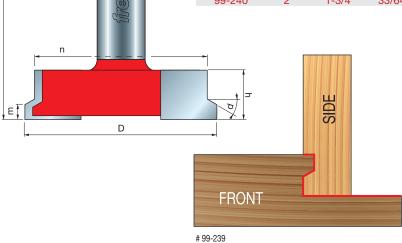
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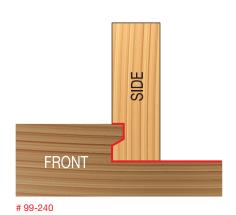
Drawer Lock Bits

Application: Forming a strong joint between the sides and front of a drawer

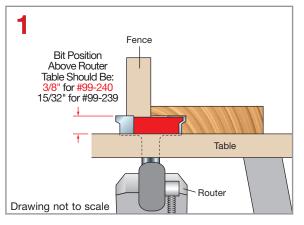
- Drawer fronts are formed horizontally, flat on the table surface.
- · Drawer sides are formed vertically against the fence of the table.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers.

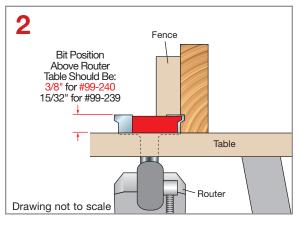
Number Dia.(D) Dia.(n) Height(h) Height(m) (d	gle Shank Overall l) Dia.(A) Length(H)
99-239 1-1/4" 1-1/64" 1/2" 13/64" 3	0° 1/4 1-3/4"
99-240 2" 1-3/4" 33/64" 5/32" 3	0° 1/2" 2"



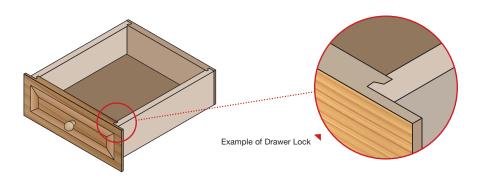








Drawer lock bits should be positioned above the router table as shown above for optimal performance.



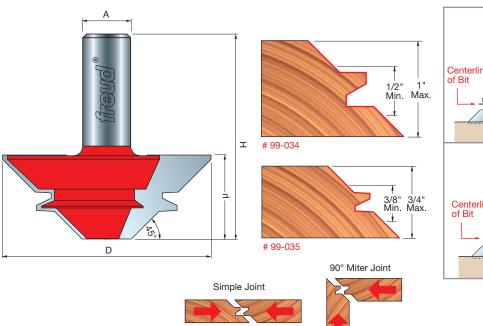
Lock Miter Bits

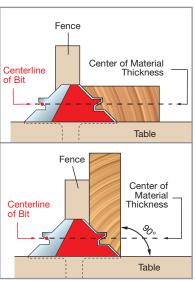
Application: Creating interlocking corner joints

- Run one board vertically and the piece to be joined horizontally.
- 99-035 cuts thinner panels for projects such as humidors and jewelry boxes.
- · Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers, as well as table-mounted portable routers.

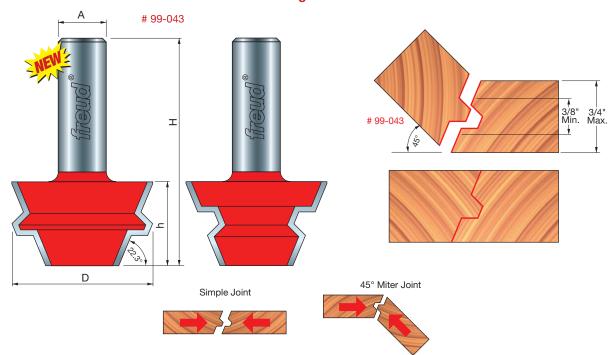


	Item Number	Overall Dia.(D)	Carbide Height(h)	Angle	Shank Dia.(A)	Overall Length(H)
	99-034	2-3/4"	1-5/32"	45°	1/2"	2-5/8"
	99-035	2-11/64"	7/8"	45°	1/2"	2-3/8"
NEW	→ 99-043	1-15/32"	7/8"	22-1/2°	1/2"	2-3/8"





22-1/2 Degree Set





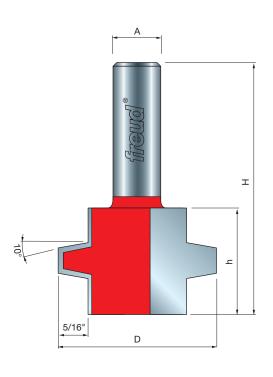


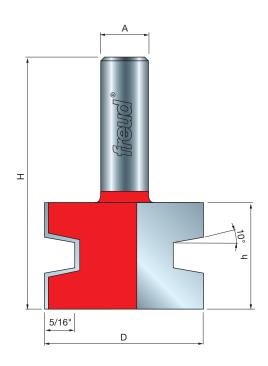
Wedge Tongue & Groove Bits

Application: Joining boards for wide panels such as table tops

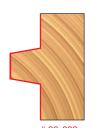
- Provides a strong joint, due to the increased glue area.Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers.

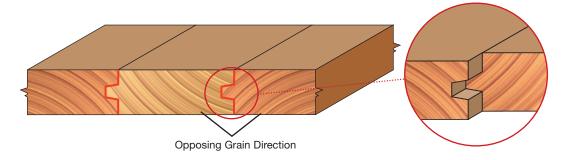
Item Number	Overall Dia.(D)	Cut Depth	Carbide Height(h)	Angle	Shank Dia.(A)	Overall Length(H)
99-032	1-21/32"	5/16"	1-3/32"	10°	1/2"	2-5/8"
99-033	1-21/32"	5/16"	1-3/32"	10°	1/2"	2-5/8"



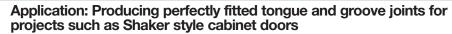


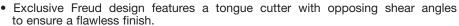






Adjustable Tongue & Groove Bit Set

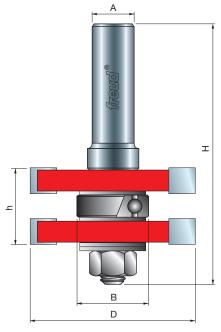


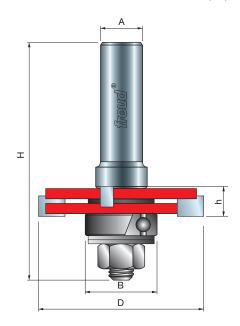


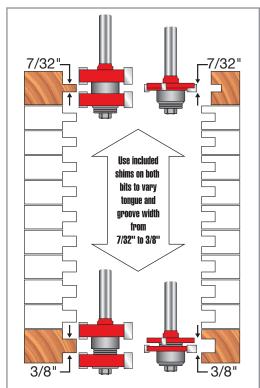
- Adjustable at .002 inch increments for stock thickness of 1/2" to 1-1/4" and groove widths of 7/32" to 3/8".
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers.

Item Number	Bit Type	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Shank Dia.(A)	Overall Length(H)
99-036 —	Tongue Bit	1-3/4"	7/8"	7/32" ~ 3/8"	1/2"	3-1/4"
	Groove Bit	1-3/4"	7/8"	13/16" ~ 1-11/32"	1/2"	2-11/16"

U.S. Pat. No. 6,367,524









Shaker Style Doors





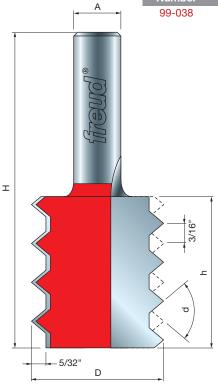


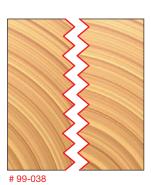
Raised Panel "V" Joint Bit

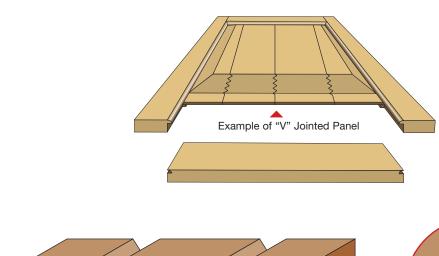
Application: Producing strong, attractive glue joint raised panels

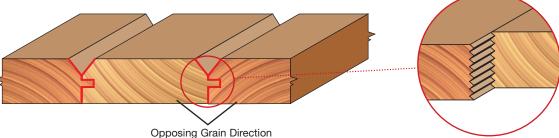
- Mating surfaces are at an angle, not vertical, so the dark lines like those created by standard finger joint bits arenot visible.
- Bit does not have to be centered in the wood.
- Simply raise or lower the bit 3/32" to route the mating edge.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers.

Item	Overall	Carbide	Minor	Angle	Shank	Overall	
Number	Dia.(D)	Height(h)	Height	(d)	Dia.(A)	Length(H)	
99-038	1-3/8"	1-37/64"	3/16"	80°	1/2"	3-1/16"	_





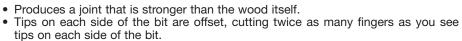




Finger Joint Bit

Application: Joining wood edge-to-edge or end-to-end



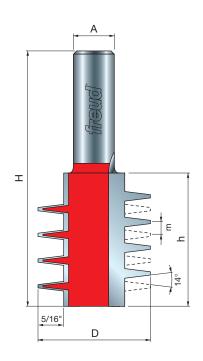




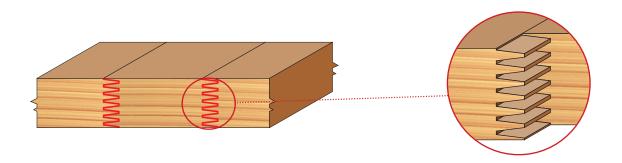
Cuts all composition materials, plywoods, hardwoods, and softwoods.
Use on CNC and other automatic routers as well as table-mounted portable router.

Item	Overall	Cut	Carbide	Minor	Shank	Overall
Number	Dia.(D)	Depth	Height(h)	Height(m)	Dia.(A)	Length(H)
99-037	1_3/8"	5/16"	1_0/16"	21/6/1"	1/2"	3"











Variable Height Finger Joint Bit

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.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.

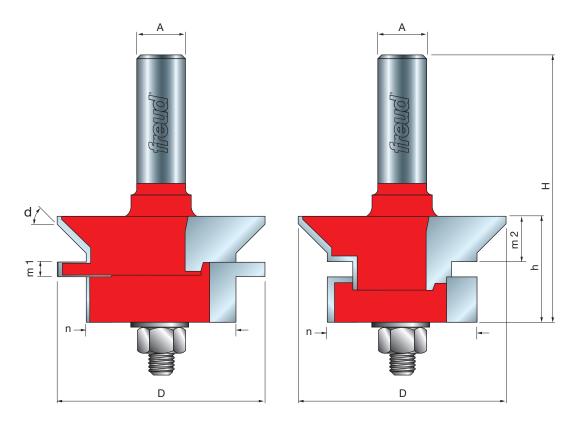
1	A	Cuts all cUse on ha	omposition r and-held and	nateriais, ¡ I table-mo	unted portable	routers.	oonwoodo	•
Ŧ		Item	Overall	Cut Dia.(C)	Bearing Dia.(B)	Carbide	Shank	Overall Length(H)
	- 1111	Number 99-039	Dia.(D)	5/16"	1-3/8"(35mm)	Height(h) 1-9/16"	Dia.(A) 1/2"	4-1/4"
	©	Replacement	t Cutters			,	.,_	, .
		Item	Overall	Bore	Carbide			
		Number 52-104	Dia. 2"	Dia. 5/16"	Height 7/32"			
	√-⊃	52-108	2"	5/16"	21/64"			
	- 100	Replacement	Bearing					
	B → ←	Item# 62-109	Outside Dia. 35mm	Inside Dia. 15mm	Height 11mm			
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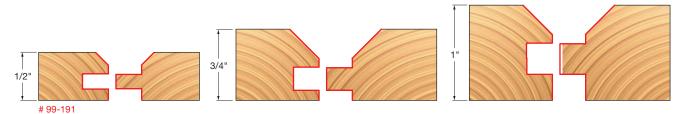
"V" Panel Bit Set

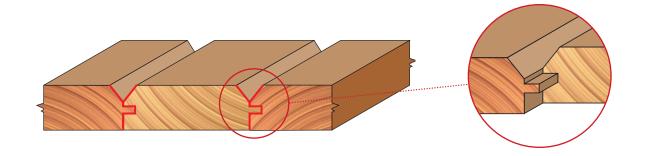
Application: Creating attractive "V" Groove paneling

- \bullet Set includes spacers that allow you to produce "V" paneling from 1/2", 3/4", or 1" thick stock.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers.

				Minor Height(m1)		Angle		Overall Length(H)	
99-191	1-11/64"	1-37/64"	1-1/8"	5/32"~5/16"	25/64"	45°	1/2"	3-3/8"	











Round Over Bowl Bits

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.
- · Cuts all solid surface materials.
- Use in hand-held portable routers.

				726 111 116	and-neid po	ntable 10	uters.				
	_	-		Item	For Top	Overall	Carbide	Large	Angle	Shank	Overall
	A F			Number	Thickness	Dia.(D)	Height(h)	Radius(R)	(d)	Dia.(A)	Length(H)
			For	Corian®	Bowls 802,	809, 810,	871				
			NEW	85-140	1/2"	2-1/8"	1"	1/2"	20°	1/2"	2-13/16"
			NEW	85-145	3/4"	2-1/4"	1-1/4"	1/2"	20°	1/2"	3-21/64"
					®, Corian®, I		ead®, & Form	nica® bowls,	Transolid®		
			_	85-150	1/2"	2-1/8"	7/8"	3/8"	10°	1/2"	2-3/4"
		A		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"
_				85-165	3/4"	2-9/16"	1-1/4"	3/4"	10°	1/2"	3-1/8"
1				85-166	1"	2-5/8"	1-1/4"	1/2"	10°	1/2"	3-1/4"
		_								1/2	3-1/4
		⊕					olid® and Hi		13°	4 (0 !!	0.54/0.48
		703		85-152	1/2"	2-1/8"	7/8"	3/8"		1/2"	2-51/64"
				85-157	1/2"	2-3/8"	7/8"	1/2"	13°	1/2"	2-51/64"
				85-161	3/4"	2-1/2"	1-1/8"	1/2"	13°	1/2"	3-3/64"
				85-164	3/4"	2-1/2"	1-1/8"	3/4"	13°	1/2"	3-3/64"
		CH-	For		bowls and si						
_			d	85-001	3/4"	2"	1"	1/2"	15°	1/2"	2-7/8"
エ		_	/	85-003	1"	2"	1-1/4"	1/2"	15°	1/2"	3-1/8"
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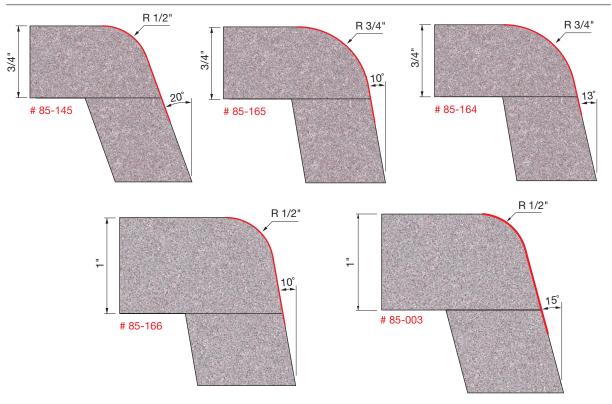




Solid Surface Bits







Ogee Bowl Bits

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.

 Features non-marring synthetic bearing to protect finished edges. Cuts all solid surface materials. Use in hand-held portable routers. 								
®	Item Number	For Top Thickness	Overall Dia.(D)	Carbide Height(h)	Large Radius(R)	Angle (d)	Shank Dia.(A)	Overall Length(H)
	For Corian®							
	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"
	R2	1/2"	¥ 85-005	R1		# 85-007		R 1/2"

Corian® is a registered trademark of Dupont Co.







solid surface sink bowls with a beveled edge • Specially formulated carbide is ideal for fabricating solid surface materials.

Application: Trimming joint between solid surface countertops and

 	A			•	Features	s non-marring	synthetic	bearing to p	icating solid s rotect finished	urtace mate edges.	eriais.
				• •	Cuts all Use in h	solid surface and-held por	materials. table route	ers.			
					Item	For Top	Overall	Carbide	Angle	Shank	Overall
	© _			F	Number or Avonite	Thickness ®, Cerata® an	Dia.(D)	Height(h)	(ď)	Dia.(A)	Length(H)
					► 85-170	1/2" or 3/4"	1-3/8"	1"	5 10°	1/2"	2-7/8"
				NEW	- 85-171	1"	1-9/16"	1-1/4"	10°	1/2"	3-1/8"
				NEW	85-172	1-1/2"	1-3/4"	1-3/4"	10°	1/2"	3-3/8"
			I		or Royal S ► 85-185	Stone®, Gruber 1/2" or 3/4"		on® sinks and 1"	bowls 12°	1/2"	2-7/8"
		d	/ -		85-186	1"	1-9/16"	1-1/4"	12°	1/2"	3-1/8"
				NEW	► 85-187	1-1/2"	1-3/4"	1-3/4"	12°	1/2"	3-5/8"
			Î	<u>F</u>		ks and bowls	1.0/00	4.11	450	1 (01)	0.7/0"
					85-009	1/2" or 3/4"	1-9/32"	1"	15°	1/2"	2-7/8"
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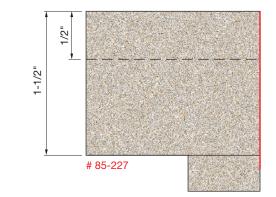
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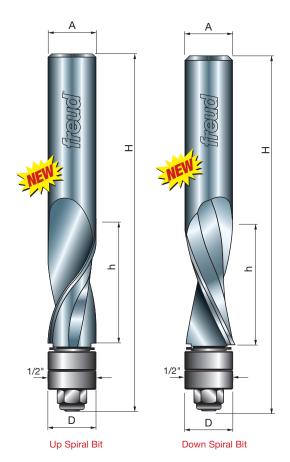
Flush Trim Solid Surface Bits

Application: Flush trimming of solid surface materials

- Specially formulated carbide is ideal for fabricating solid surface materials. Bit #85-227 features non-marring synthetic bearing to protect finished edges.
- Spiral flush trim bits deliver very fast, clean cuts in thick tops.
- Cuts all solid surface materials.
- Use in hand-held portable routers.

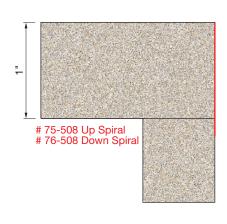
	Item Number	For Top Thickness	Shear Direction	Overall Dia.(D)	Carbide Height(h)	Shank Dia.(A)	Overall Length(H)
NEW	► 85-227	1/2" to 1-1/2"	N/A	3/4"	1-3/4"	1/2"	3-5/8"
	Spiral Flush	Trim Bits					
NEW	75-508	1"	Up	1/2"	1-1/4"	1/2"	3-3/4"
NEW	75-509	1-3/4"	Up	1/2"	2"	1/2"	4-11/16"
NEW	→ 76-508	1"	Down	1/2"	1-1/4"	1/2"	3-3/4"
NEW	76-509	1-3/4"	Down	1/2"	2"	1/2"	4-11/16"





3/4"

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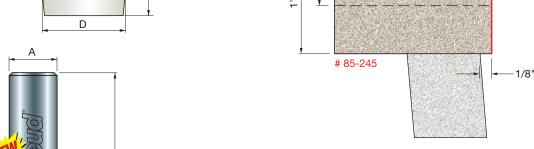


Application: Initial bowl cut out to prepare for Round Over, Ogee, Bevel or Bull Nose finish cuts

- Specially formulated carbide is ideal for fabricating solid surface materials.
- Features non-marring synthetic bearing to protect finished edges.
- Cuts all solid surface materials.
- Use in hand-held portable routers.

Item Number	For Top Thickness	Overhang Amount(C)	Overall Dia.(D)	Carbide Height(h)	Shank Dia.(A)	Overall Length(H)		
Overhang Cut Out Bits with 5° beveled bearing								
NEW 85-245	1-1/4"	1/8"	1/2"	1-3/8"	1/2"	3"		
NEW 85-255	1-1/4"	7/32"	1/2"	1-3/8"	1/2"	3"		
Overhang Trim Bit with 10° beveled bearing								
NEW 85-275	1/2" or 3/4"	1/8"	3/4"	1"	1/2"	2-7/8"		
Overhang Trim Bits with 5° radiused bearing								
NEW 85-280	1/2" or 3/4"	1/8"	3/4"	1"	1/2"	2-7/8"		
NEW 85-290	1"	1/8"	3/4"	1-1/4"	1/2"	3-1/8"		
NEW 85-296	1-1/4"	1/8"	3/4"	1-1/2"	1/2"	3-3/8"		
NEW 85-298	1-1/2"	1/8"	3/4"	1-3/4"	1/2"	3-5/8"		

#85-290



1/2

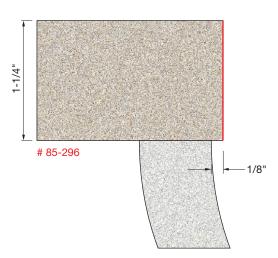


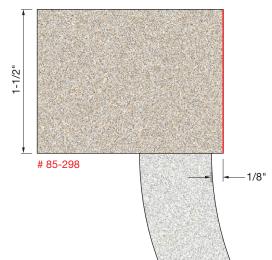
1/8"

Overhang Trim and Cut Out Bits



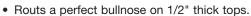






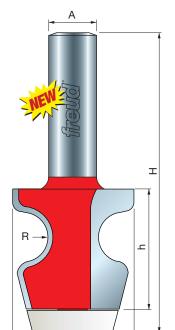
Bull Nose Bits

Application: Create a bullnose edge around undermount sink openings

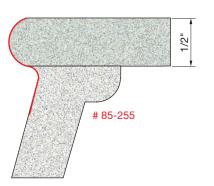


- Specially formulated carbide is ideal for fabricating solid surface materials.
- Features non-marring synthetic bearing with 5° bevel to protect finished edges.
- Cuts all solid surface materials.
- Use in hand-held portable routers.

	Item Number	For Top Thickness	Overall Dia.(D)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
	For Avonite®	, Cerata® and	d Surell® lav	vatory bowls			
NEW	85-605	1/2"	1-1/4"	1-1/4"	1/4"	1/2"	3-1/8"



D



Avonite® is a registered trademark of Aristech Acrylics LLC, Cerata® is a registered trademark of Hartson-Kennedy Corp., Surell® are registered trademarks of the Formica Corp.



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Top Mount Bowl Bits

Application: Routing cutouts for top mount European style bowls, or other bevel applications

- Specially formulated carbide is ideal for fabricating solid surface materials.
- Cuts all solid surface materials.

•		d-held portable	e routers.			
	Item Number	Overall Dia.(D)	Carbide Height(h)	Angle (d)	Shank Dia.(A)	Overall Length(H)
NEW	85-315	29/32"	1"	15°	1/2"	3"
	15°					
	# 85-315				F	





Application: Producing a sturdy joint in solid surface countertops

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

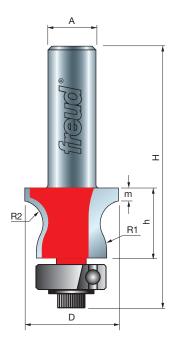
1	Cuts all soUse on ha	olid surface and-held po	materials. ortable route	ers.	3		
	Item Number	Overall Dia.(D)	Small Dia.(n)	Carbide Height(h)	Minor Height(m)	Shank Dia.(A)	Overall Length(H)
Ξ	85-033	5/8"	37/64"	1-13/16"	1/8"	1/2"	3-1/8"
	# 85-033		1-13/16"				

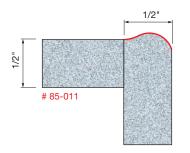
No Drip Edge Bits

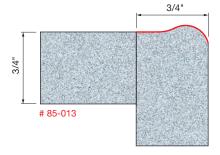
Application: Creating a slightly raised edge on a solid surface coutertop

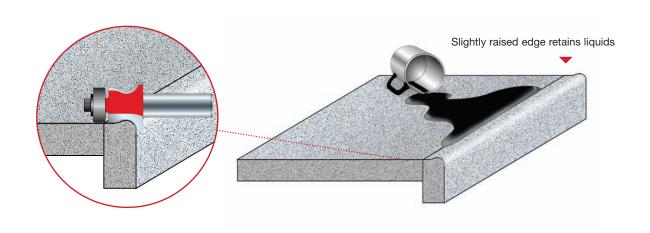
- Specially formulated carbide is ideal for fabricating solid surface materials.
- Cuts all solid surface materials.
- Use on hand-held portable routers.

Item Number				Large Radius(R1)	Small Dia.(R2)	Shank Dia.(A)	Overall Length(H)
85-011	1"	3/4"	9/64"	3/8"	1/4"	1/2"	2-13/16"
85-013	1"	1"	9/64"	3/8"	1/4"	1/2"	3-1/16"











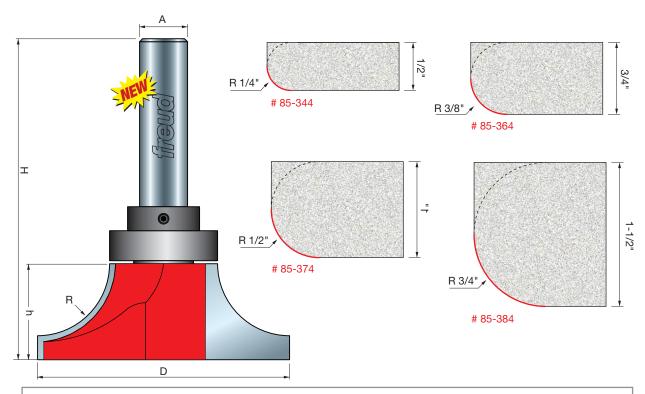


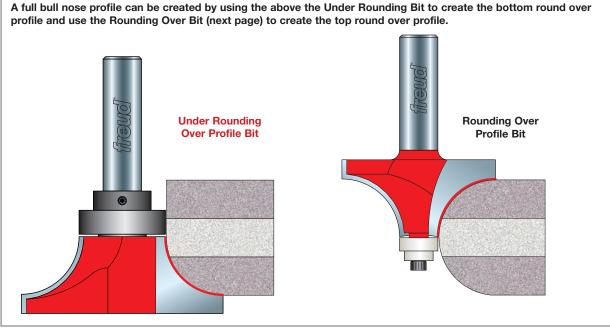
Under Rounding Bit For Bull Nose

Application: Routing the lower portion of a bull nose edge

- Combine these bits with the Rounding Over Bits above to create perfect bull nose edges.
- · Specially formulated carbide is ideal for fabricating solid surface materials.
- Cuts all solid surface materials.
- Use in hand-held portable routers.
- Includes steel bearing.

	Item Number	For Top Thickness	Overall Dia.(D)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
NEW	► 85-344	1/2"	1-5/8"	3/8"	1/4"	1/2"	2-5/8"
NEW	► 85-364	3/4"	1-7/8"	1/2"	3/8"	1/2"	2-3/4"
NEW	► 85-374	1"	2-1/8"	3/4"	1/2"	1/2"	3"
NEW	85-384	1-1/2"	2-5/8"	1"	3/4"	1/2"	3-3/8"



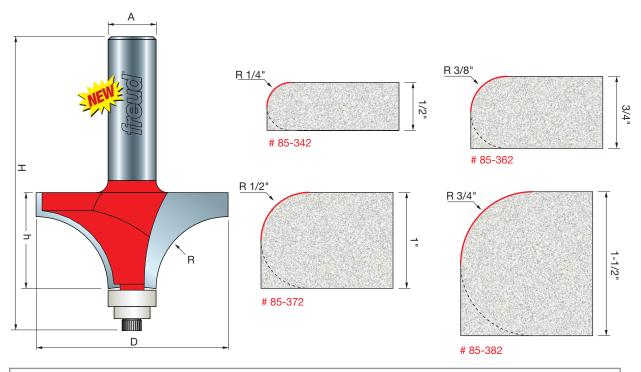


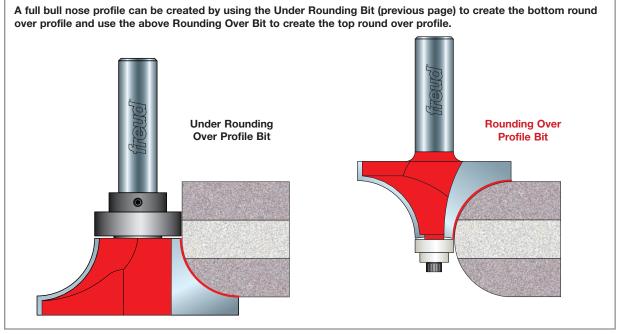
Rounding Over Bits



- Use to rout a round over, or in combination with the Under Rounding Bits with the same radius below to rout a bull nose.
- Specially formulated carbide is ideal for fabricating solid surface materials.
- Features non-marring synthetic bearing to protect finished edges.
- Cuts all solid surface materials.
- Use in hand-held portable routers.

	Item Number	For Top Thickness	Overall Dia.(D)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
NEW	► 85-342	1/2"	1"	3/8"	1/4"	1/2"	2-3/8"
NEW	► 85-362	3/4"	1-1/4"	1/2"	3/8"	1/2"	2-1/2"
NEW	► 85-372	1"	1-1/2"	3/4"	1/2"	1/2"	2-3/4"
NEW	► 85-382	1-1/2"	2"	1"	3/4"	1/2"	3"







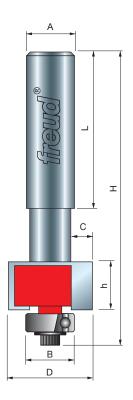


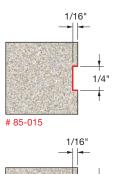
Inlay Bits

Application: Decorative inlay work in solid surface countertops

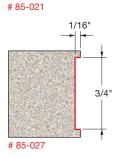
- Specially formulated carbide is ideal for fabricating solid surface materials.
 Cuts all solid surface materials.
- Use on hand-held portable routers.

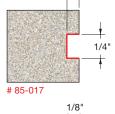
Item Number	Overall Dia.(D)	Cut Depth(C)	Bearing Dia.(B)	Carbide Height(h)	Shank Length(L)	Shank Dia.(A)	Overall Length(H)
85-015	7/8"	1/16"	3/4"	1/4"	1-5/8"	1/2"	2-13/16"
85-017	7/8"	1/8"	5/8"	1/4"	1-5/8"	1/2"	2-13/16"
85-019	7/8"	3/16"	1/2"	1/4"	1-5/8"	1/2"	2-13/16"
85-021	7/8"	1/16"	3/4"	1/2"	1-5/8"	1/2"	3-1/16"
85-023	7/8"	1/8"	5/8"	1/2"	1-5/8"	1/2"	3-1/16"
85-025	7/8"	3/16"	1/2"	1/2"	1-5/8"	1/2"	3-1/16"
85-027	7/8"	1/16"	3/4"	3/4"	1-5/8"	1/2"	3-5/16"
85-029	7/8"	1/8"	5/8"	3/4"	1-5/8"	1/2"	3-5/16"
85-031	7/8"	3/16"	1/2"	3/4"	1-5/8"	1/2"	3-5/16"



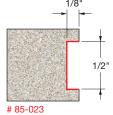


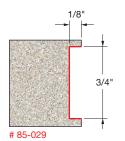


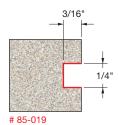


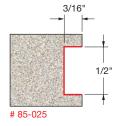


1/8"

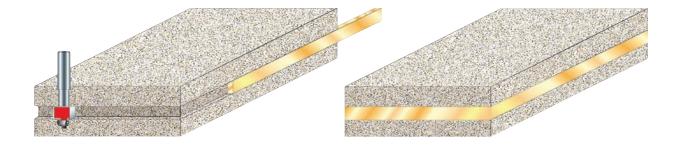












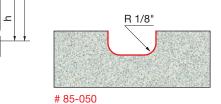


Drainboard Bits

Application: Routing Grooves in Drainboard Countertops

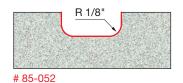
- Specially formulated carbide is ideal for fabricating solid surface materials.
 Cuts all solid surface materials.
- Use in hand-held portable routers.

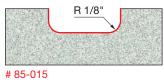
	Item Number	Overall Dia.(D)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
EW	► 85-050	1/2"	1/2"	1/8"	1/2"	2-7/8"
EW	85-052	5/8"	1/2"	1/8"	1/2"	2-7/8"
EW	85-054	3/4"	1/2"	1/8"	1/2"	2-7/8"
EW	85-056	1"	1/2"	1/8"	1/2"	2-7/8"

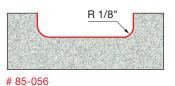


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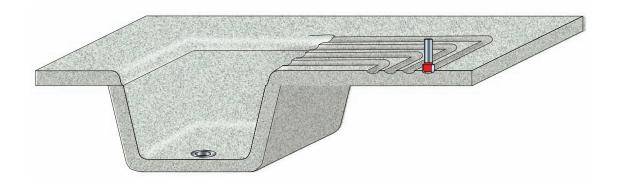
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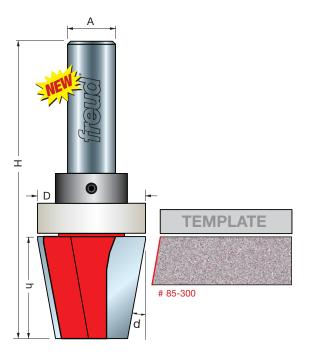


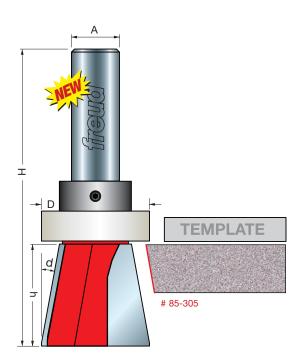
Trimming, Repair and Bowl Removal Bits

Application: Trimming, repair and bowl removal

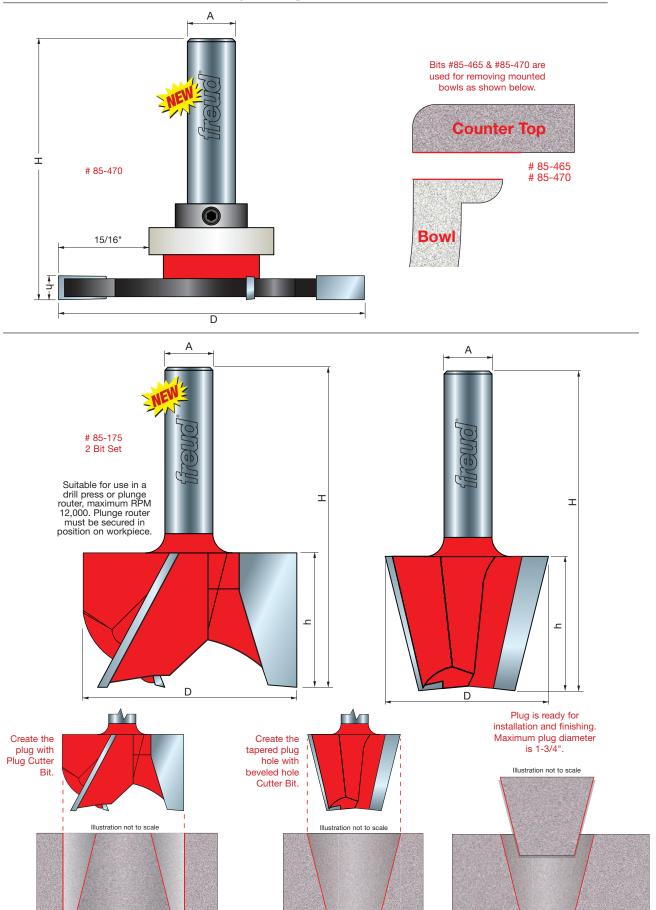
- Specially formulated carbide is ideal for fabricating solid surface materials.
 Cuts all solid surface materials.

Ť		Use in h	and-held por	table route	rs.			
	MEN!	Item Number	Description	Overall Dia.(D)	Carbide Height(h)	Angle (d)	Shank Dia.(A)	Overall Length(H)
	Z/N		Grooving Bit, r		ess adhesive, c	uts spline gro		
		NEW 85-450	6 wing trim	2"	1/4"	_	1/2"	3-1/8"
					duces matching			
	707	NEW 85-300	Bevel Bit	1-1/8"	1"	10°	1/2"	3"
		NEW 85-305	Dovetail Bit	1-1/8"	1"	10°	1/2"	3"
		4-Wing Boy	vl Removal Bits		maged bowls f	rom tops		
			1-1/8" cut depth, For all bowls except Corian®	3-5/8"	1/4"	_	1/2"	2-5/8"
エ		NEW 85-470	15/16" cut depth, For Corian® bowls	3-3/16"	1/4"		1/2"	2-5/8"
					oles and gouge	s in tops	1 (01)	0.5(10)
		NEW > 85-175	2 bit beveled plug set 2 bit beveled plug set	2-1/4"	1-7/16"	-	1/2"	3-5/16"
			2 bit beveled plug set	1-11/16"	1-7/16"	_	1/2"	3-5/16"
# 8	85-450	hţ						
	D							
1		-						
					0 0			





(Continued) Trimming, Repair and Bowl Removal Bits



All Profile Drawings 1:1 Scale

Red Item Numbers Indicate 1/2" Shank

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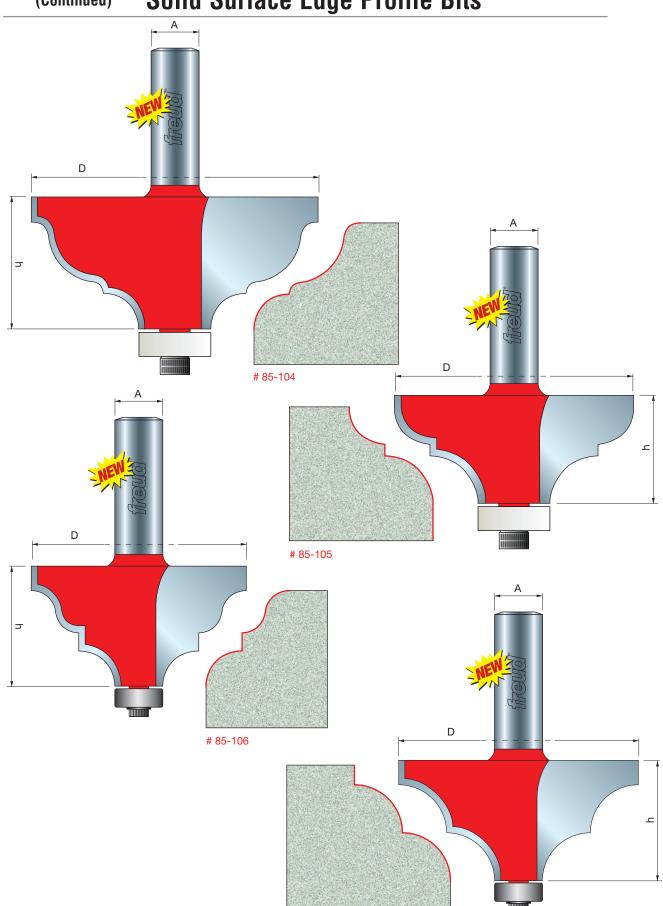


Solid Surface Edge Profile Bits

Application: Decorative edges on all solid surface tops

- Specially formulated carbide is ideal for fabricating solid surface materials.

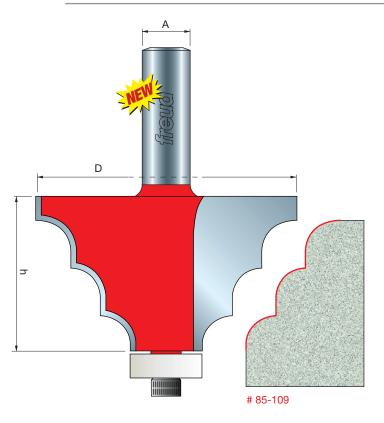
Item	Overall	Carbide	Shank	Bearing
Number	Dia.(D)	Height(h)	Dia.(A)	Туре
№ 85-101	3"	1-1/8"	1/2"	Synthetic
₩ 85-103	2-3/4"	1-1/4"	1/2"	Steel
w ≥ 85-104	3"	1-3/8"	1/2"	Synthetic
w ≥ 85-105	2-1/2"	1-1/8"	1/2"	Synthetic
w ≥ 85-106	2-1/4"	1-1/4"	1/2"	Steel
W 85-108	2-1/2"	1-1/4"	1/2"	Steel
85-109	2-3/4"	1-5/8"	1/2"	Synthetic
W 85-110	1-1/2"	2"	1/2"	Steel
W 85-111	2-1/2"	1-1/2"	1/2"	Steel
W 85-113	2-1/2"	1-3/4"	1/2"	Steel
85-115	3-1/8"	1"	1/2"	Steel
w ≥ 85-117	2-3/8"	1-3/16"	1/2"	Steel
₩ > 85-118	1-11/16"	3/4"	1/2"	Steel
₩ > 85-125	2"	1-1/8"	1/2"	Steel
w ≥ 85-126	1-3/4"	1/2"	1/2"	Steel
₩ > 85-127	2-1/8"	1"	1/2"	Steel
85-130	2-1/2"	1-1/4"	1/2"	Steel
₩ > 85-131	2"	7/8"	1/2"	Steel
85-133	1-3/4"	1-1/4"	1/2"	Steel
85-135	1-5/16"	1-1/16"	1/2"	Syntheti
		15-11		
			A	
		NE.	A POINT OF THE PROPERTY OF THE	
# 85-101		-NE	A COMPLETE	
# 85-101		- NE	A COMPLETE OF THE PARTY OF THE	
# 85-101	-	D	A A	
# 85-101		D	A P	
# 85-101	*	D	A P	
# 85-101	*	D	A A	
# 85-101		D	A A A A A A A A A A A A A A A A A A A	
# 85-101		D	A A	
# 85-101		D	A	
# 85-101		D	A	

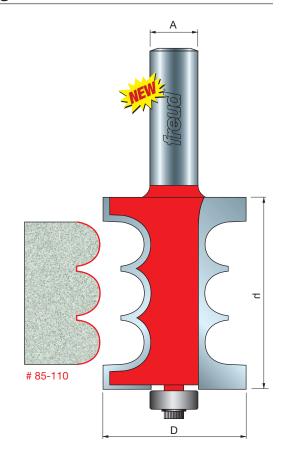


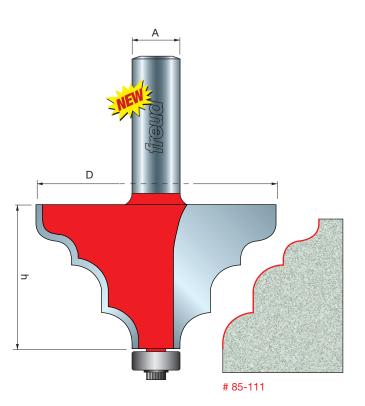
85-108

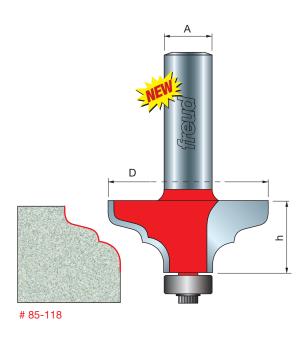
All Profile Drawings 1:1 Scale

(Continued) Solid Surface Edge Profile Bits

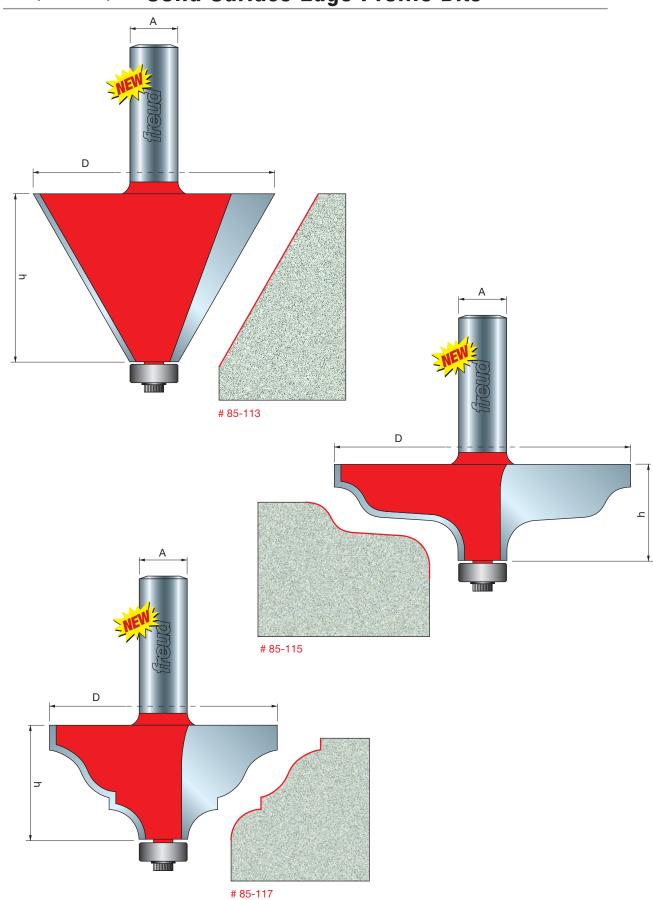




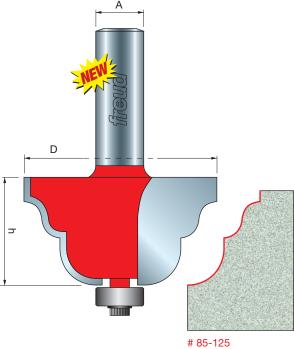




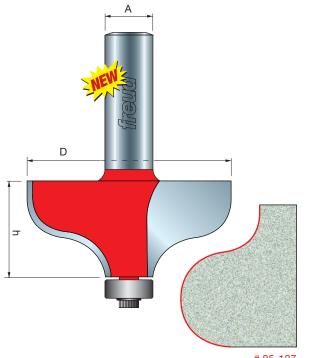




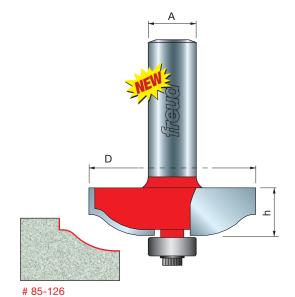
Solid Surface Edge Profile Bits (Continued)





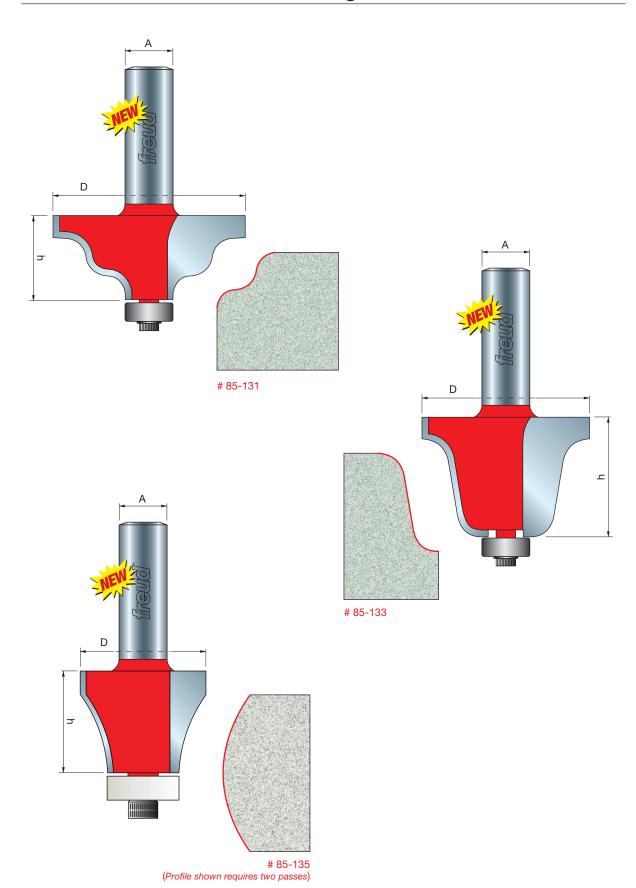


85-127 (Profile shown requires two passes)



D

85-130





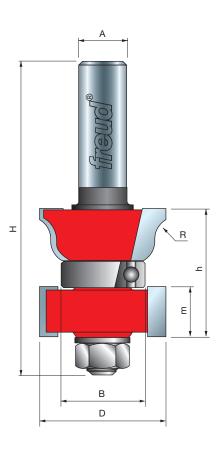


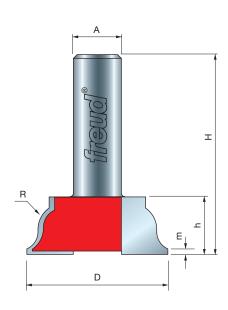
Window Sash & Rail Bits

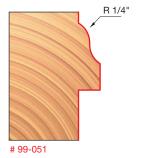
Application: Two bits work together to produce a complete divided lite sash

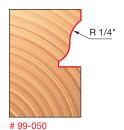
- 99-050 copes the rails, sash bars and muntins, while 99-051 cuts the profile on all components. Includes instruction manual.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers.

Item Number			Carbide Height(h)	Minor Height(m)		Shank Dia.(A)	Overall Length(H)
99-051	1-11/32"	22mm	1-25/64"	17/32"	1/4"	1/2"	3-7/16"
99-050	1-1/2	_	39/64"	1/16"	1/4"	1/2"	2-1/16"

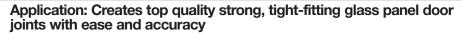






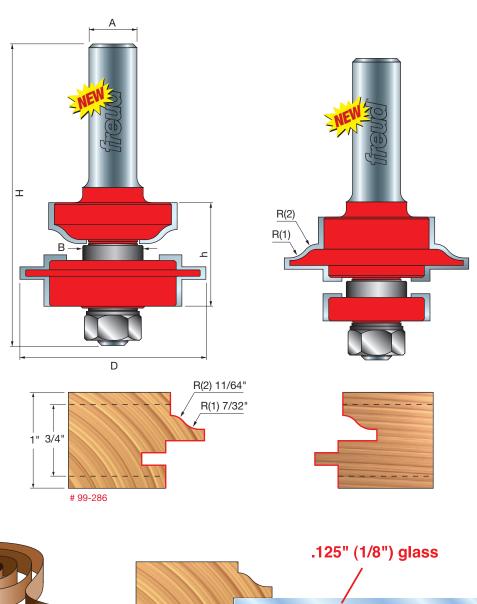


Glass Panel Cabinet Door Bit Set

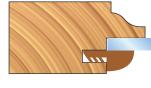


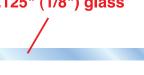
- Extra strong rail and stile joints with a unique lock in the stile and rail joint, plus significantly more gluing surface. No other set on the market provides this feature.
- Easy time saving set-up improves accuracy and increases profitability for the
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers.

	Item Number	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Large Radius(R1)	Small Radius(R2)	Shank Dia.(A)	Overall Length(H)
NEV	> 99-286	2"	16mm	1-3/32"	7/32"	11/32"	1/2"	3-1/8"
	Glass Panel I	Molding Sp	line					
	Item #		Color		Roll Length			
NEW	➤ GM005	Fruit	wood (med	lium brown)	25'			













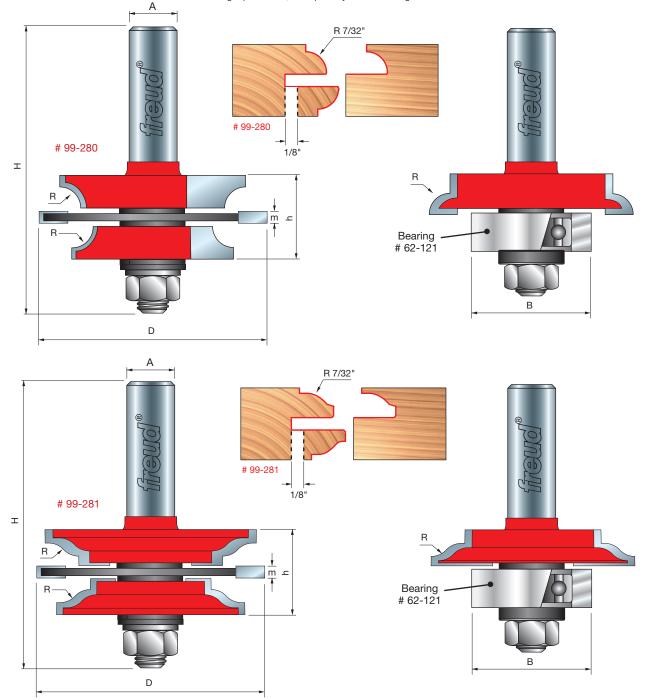
Recoverable Bead Glass Door Bit Sets

Application: Creates glass doors that look equally good from the front and back

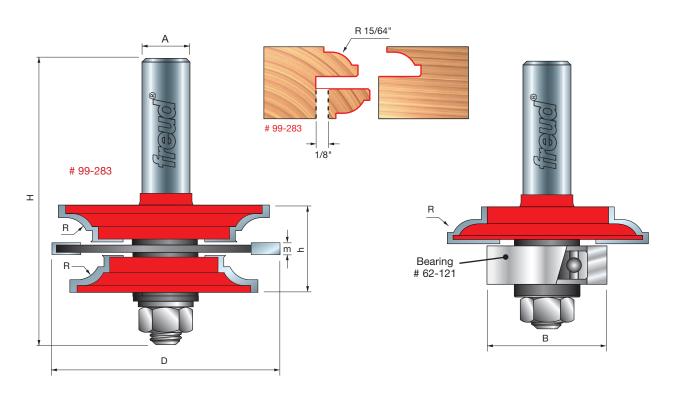
- Each bit produces a unique profile on the front of the door and a matching profile on the back that can be removed with a 1/8" kerf saw blade, then miter cut to make a bead to secure the glass panel.
- 99-281 produces an ogee profile, 99-280 produces a quarter round profile, and 99-283 produces a beaded profile.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers.

Item Number	Overall Dia.(D)		Carbide Height(h)	Minor Height(m)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
99-280	2-3/8"	1-1/4"	7/8"	1/8"	7/32"	1/2"	3"
99-281	2-3/8"	1-1/4"	7/8"	1/8"	7/32"	1/2"	3"
99-283	2-3/8"	1-1/4"	7/8"	1/8"	15/64"	1/2"	3"

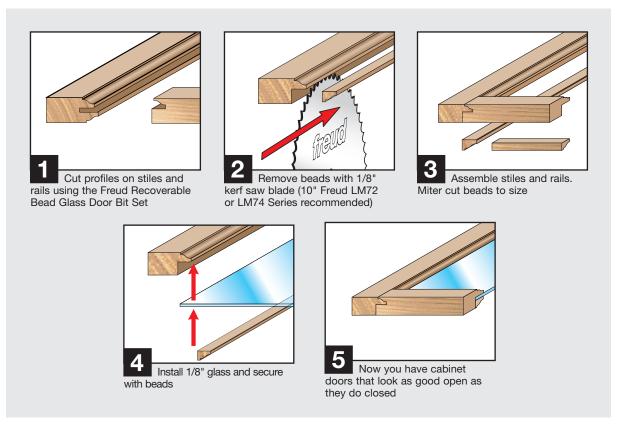
For bearing replacement, use specialty sleeve bearing item # 62-121







Steps To Perfect Glass Cabinet Doors





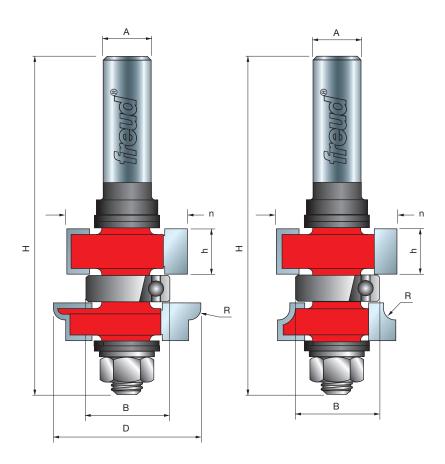


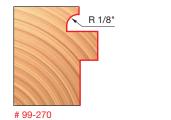
Divided Lite Cabinet Door Bit Set

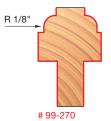
Application: Produces cabinet doors with stylish glass panes

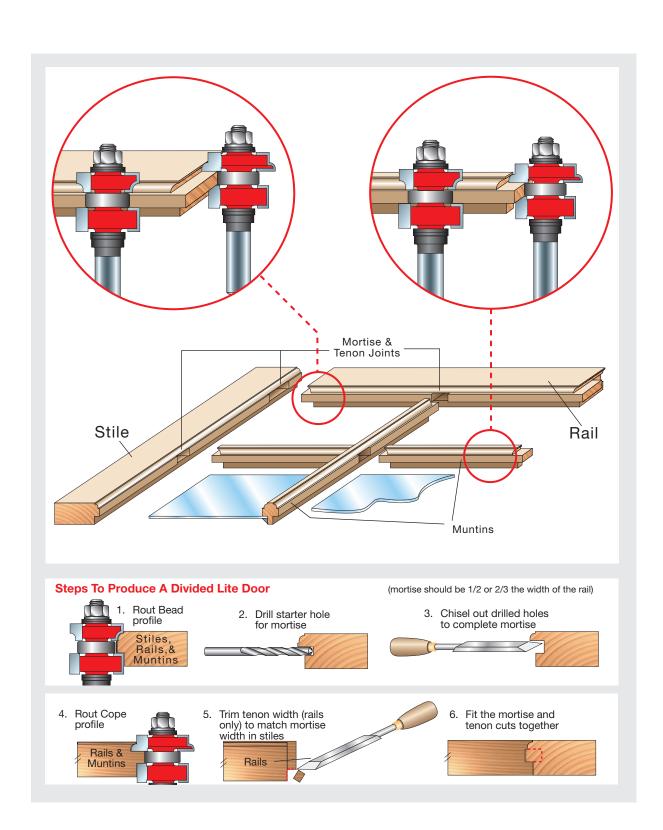
- Build beautiful glass panel doors with classic multiple pane styling.
- The perfectly matched bits mill profiles for stiles, rails, mullions and muntins that allow you build strong mortise and tenon joints.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers.

Item Number	Overall Dia.(D)			Carbide Height(h)	Large Radius(R)		
99-270	1-17/32"	22mm	1-1/4"	1-1/8"	1/8"	1/2"	3-7/16"











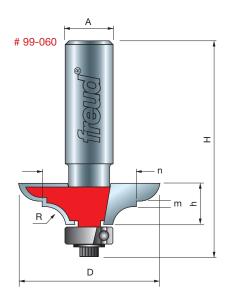


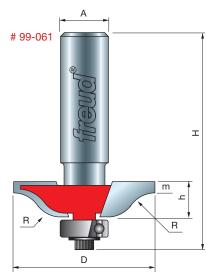
Rail & Stile Profile Bits

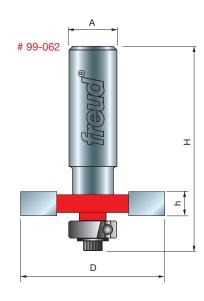
Application: Creates rail and stile doors matched reverse profiles

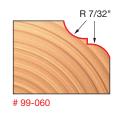
- 99-060 and 99-061 bits cope and stick cut the rails and stiles, and also can be used alone to form a matching edge profile. 99-062 cuts the panel slot and the back of the tongue on the coped piece.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

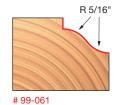
Item Number	Overall Dia.(D)	Small Dia.(n)	Carbide Height(h)	Minor Height(m)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
99-060	1-1/2"	1"	7/16"	1/16"	7/32"	1/2"	2-1/4"
99-061	1-1/2"	-	3/8"	1/8"	5/16"	1/2"	2-1/4"
99-062	1-1/2"	_	1/4"	_	_	1/2"	2-1/8"

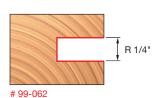


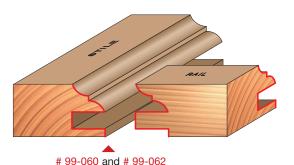


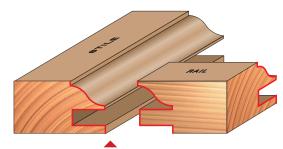












99-061 and # 99-062

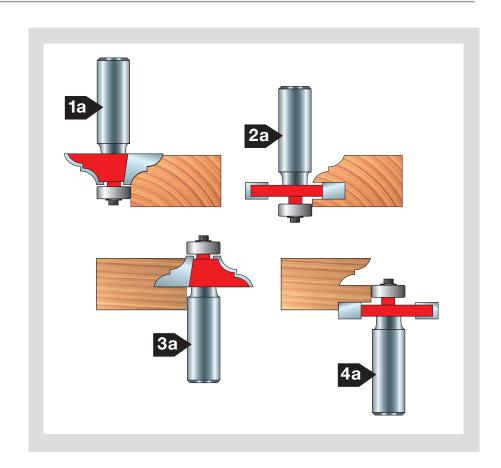


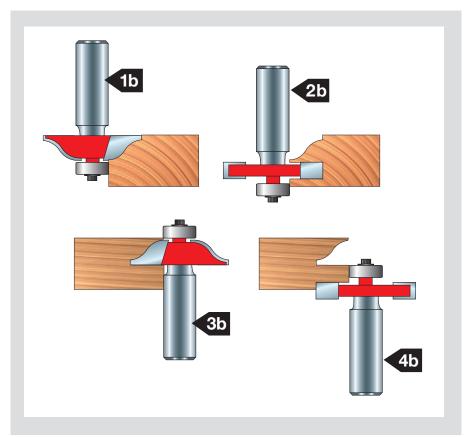


Panel Slot Cut Using Bit # 99-062

Cope Cut Profile Using
Bit # 99-060









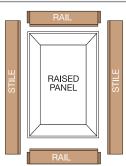










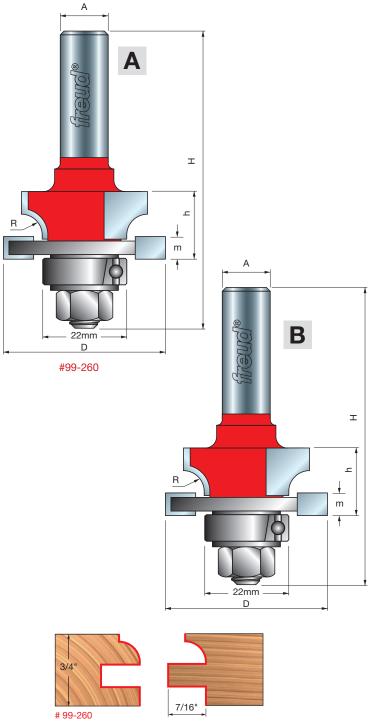


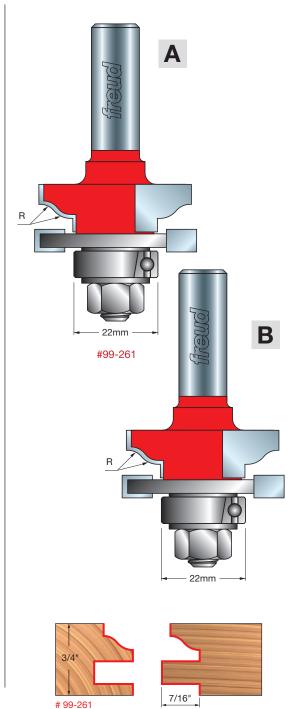
Matched Rail & Stile Bit Sets

Application: Produces perfect fitting rail and stile doors from 3/4" stock

- Produce flawless raised panel doors when you combine these bits with one of Freud's Raised Panel Bits. Shims are included to ensure a perfect fit.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers.

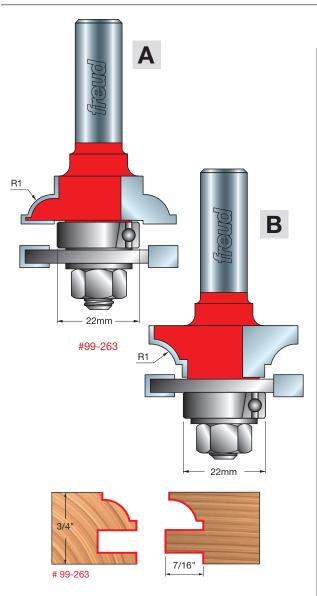
	Item Number	Overall Dia.(D)	Small Dia.(n)	Carbide Height(h)	Minor Height(m)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
	99-260	1-11/16"	1-5/16"	11/16"	15/64"	7/32"	1/2"	3"
	99-261	1-11/16"	1-19/32"	23/32"	15/64"	13/64"	1/2"	3"
	99-263	1-11/16"	1-19/32"	3/4"	15/64"	9/32"	1/2"	3"
NEV	99-264	1-11/16"	1-19/32"	3/4"	15/64"	9/32"	1/2"	3"
	Mini Rail & St	tile Bit Set						
NEV	→ 99-266	1-9/32"	25/32"	13/16"	-	-	1/2"	2-11/16"

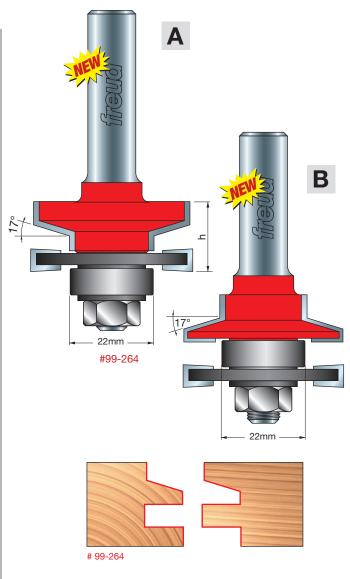


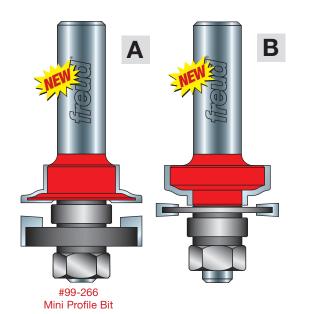


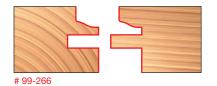
Matched Rail & Stile Bit Sets

203



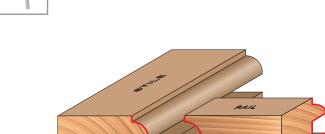




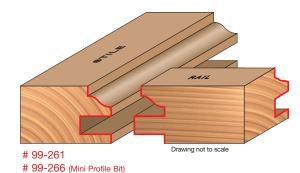


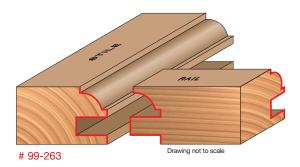
See next page for steps on usage...

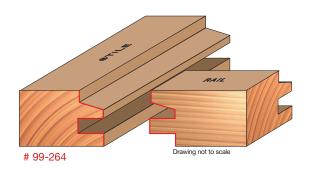








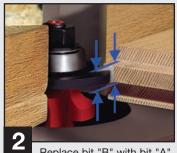




Steps For Matched Rail & Stile Joints



cope on both ends of each rail.



Matched Rail & Stile Bit Sets

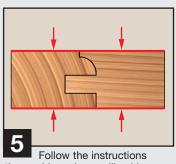
Replace bit "B" with bit "A". Adjust the height of bit "A" until the stick cutter bit is perfectly aligned with the tenon.



Cut the profile on the inner side of each rail.



With the same bit make the profile on one side of each stile.

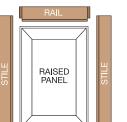


thoroughly and you will achieve a perfectly matched joint.



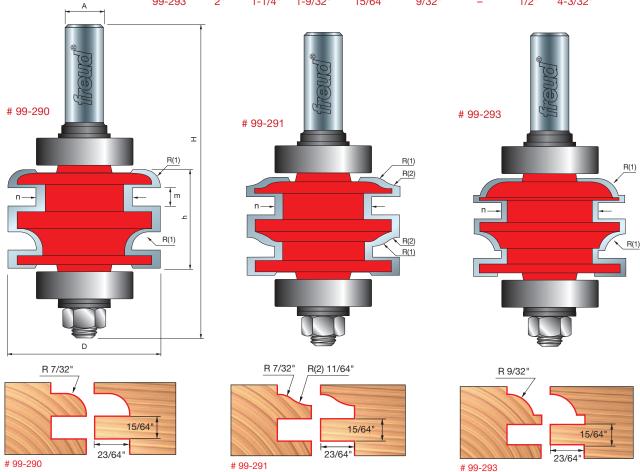
One-Piece Rail & Stile Bits



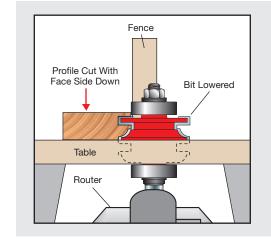


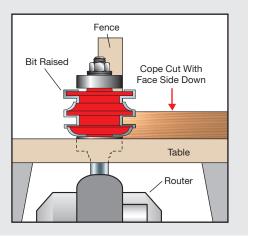
- Application: A simple, efficient method for creating beautiful cabinet doors without having to reconfigure or change cutters or fence settings
- Cuts all frame members face down so variations in stock thickness are not a problem.
- 99-290 produces a quarter round profile, 99-291 produces and ogee profile, and 99-293 produces a classical bead profile.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers.

Item Number			Carbide Height(h))	Minor Height(m)		Small Radius(R2)		Overall Length(H)
99-290	2"	1-1/4"	1-9/32"	15/64"	7/32"	-	1/2"	4-3/32"
99-291	2"	1-1/4"	1-9/32"	15/64"	7/32"	11/64"	1/2"	4-3/32"
99-293	2"	1_1//"	1_0/32"	15/64"	9/32"	_	1/2"	4-3/32"



Set-Up for One-Piece Rail & Stile Bit







Entry & Interior Door Router Bit System

Application: Build entry and interior doors with true mortise and tenon construction for rock-solid joints that last a lifetime

- This Entry and Interior Door System lets the woodworker build doors with true mortise and tenon construction for rock-solid joints that last a lifetime.
- This Matched Rail and Stile Bit Set comes fully assembled to mill perfect 1-3/4" Rail and Stile joints for exterior doors. To mill 1-3/8" interior door joints, simply remove the spacers from each bit.
- Milling a tenon of virtually any length is easy: the top cutter and bearing of the rail
 bit is simply unscrewed from the lower cutter and shank, without removing the bit
 from the router or changing the height of the cutter!
- Cuts all composition materials, hardwoods, and softwoods.
- Use on table-mounted portable routers.

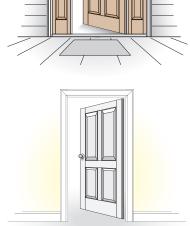
	Item Number	Profile	Overall Dia.(D)	Bearing Dia.(B)	Carbide Height(h)	Shank Dia.(A)	Overall Length(H)			
2 Piece Entry & Interior Door Bit Sets For 1-3/8" & 1-3/4" Stock										
NEW	► 99-267	Roundover	1-7/8"	7/8"	1-7/8"	1/2"	4-1/8"			
NEW	99-268	Ogee	1-7/8"	7/8"	1-7/8"	1/2"	4-1/8"			
NEW	99-269	Cove & Bead	1-7/8"	7/8"	1-7/8"	1/2"	4-1/8"			
2 Piece Entry & Interior Door Bit Set For 2" & 2-1/4" Thick Stock										
NEW	99-277	Roundover	1-7/8"	7/8"	2-3/8"	1/2"	4-19/32"			

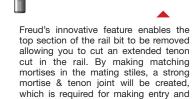
Patent Pending

-1/2" Long Extended Tenon

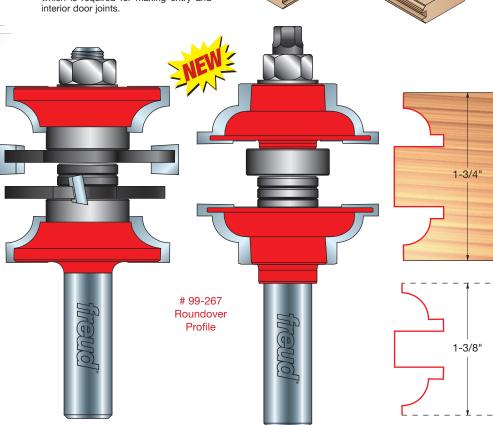
Extended

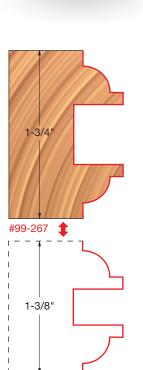
Tenon

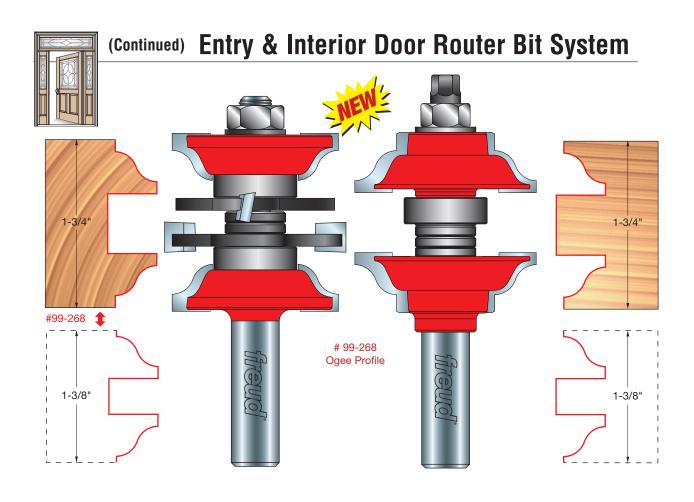


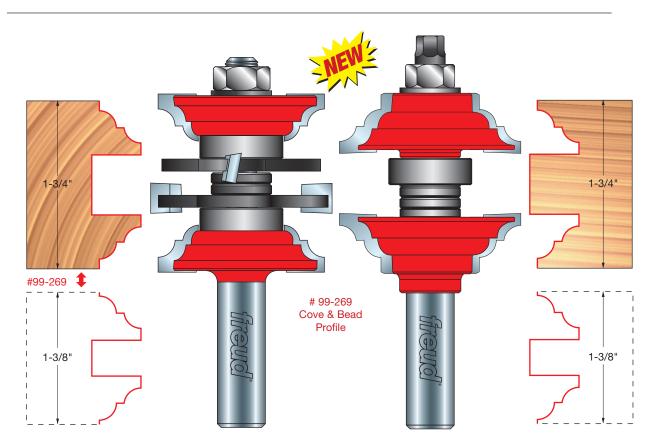


1/2" Long Stub Tenon







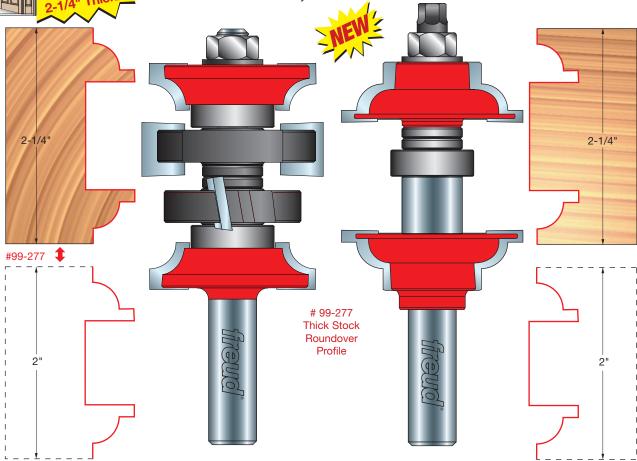




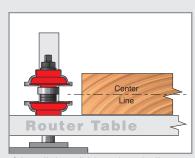
(Continued)

Entry & Interior Door Router Bit System

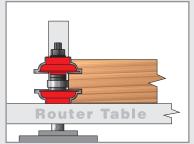
Freud's Thick Stock Entry Door Set lets woodworkers build large doors with true mortise and tenon construction in stock up to 2-1/4" thick, the ideal choice for oversized custom entry doors.



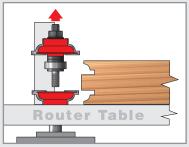
Steps To Create Rail & Stile Joints With Extended Tenons:



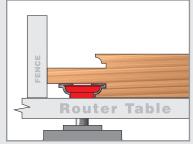
1) Install the rail bit and vertically center the bit with the stock.



2) Rout the rail ends with stub tenons.



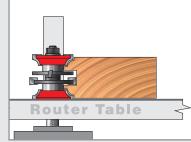
3) While leaving the rail bit in place, remove the top section of the router bit



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



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



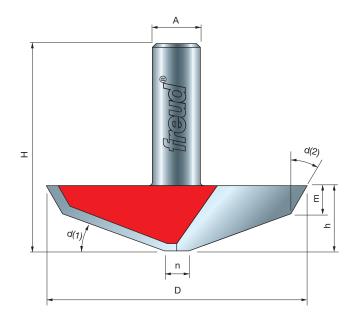
6) Using multiple passes, the stile cuts can now be made.

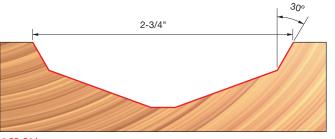
French Provincial Raised Panel Bit

Application: Ideal for making decorative grooves in panels, tops and plaques

- Produces raised panels used in doors and paneling from 3/4" stock. Adjust the length of the tongue by using a fence.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
 Use on CNC and other automatic routers as well as table-mounted portable routers.

Item Number			Carbide Height(h)	Minor Height(m)	Angle (d1)			Overall Length(H)
99-214	2-3/4"	1/4"	11/16"	19/64"	20°	30°	1/2"	2-3/16"









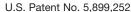
2+2 Raised Panel Bits

Application: Ideal for creating raised panels for doors and paneling, as well as decorative tops, plaques and molding

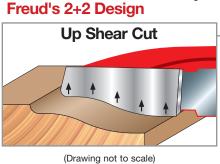
- Revolutionary design combines two small wings that cut downward to shear the top edge for a splinter-free surface, and two large wings that shear upward for a smooth finish.
- Use 1/2" height for 5/8" stock. Use 5/8" height for 3/4" stock.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers.

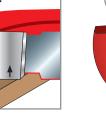


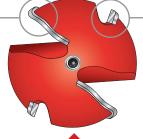


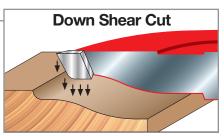






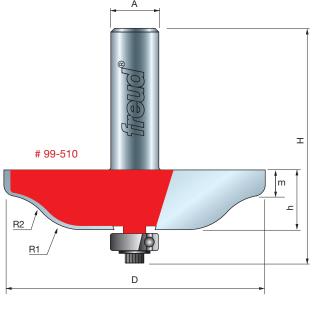


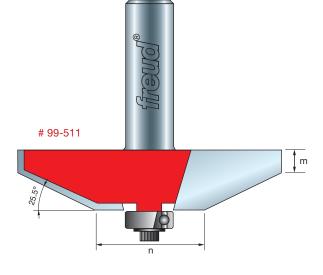


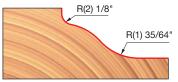


Bottom view of 2+2 bit

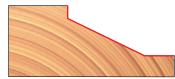
(Drawing not to scale)





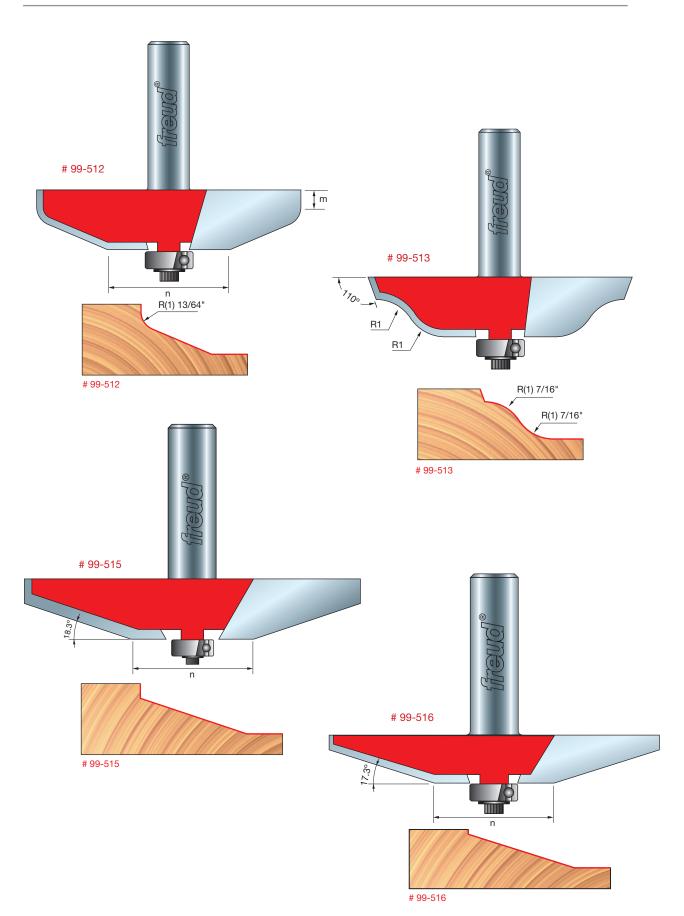


99-510

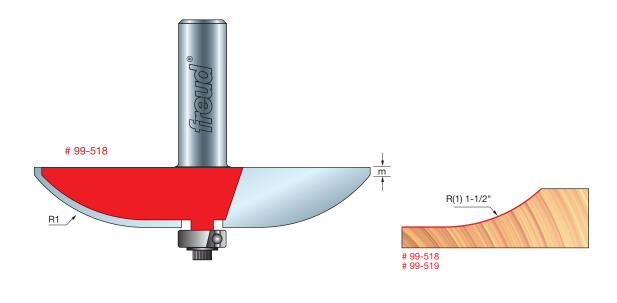


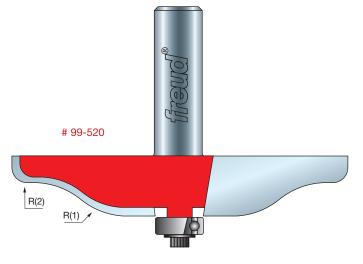
99-511

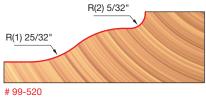
All Profile Drawings 1:1 Scale

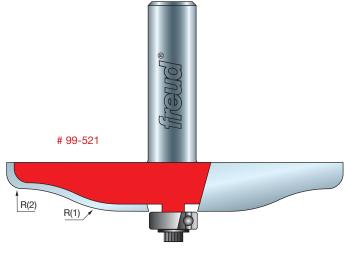


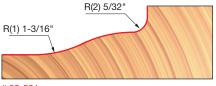
(Continued) 2+2 Raised Panel Bits

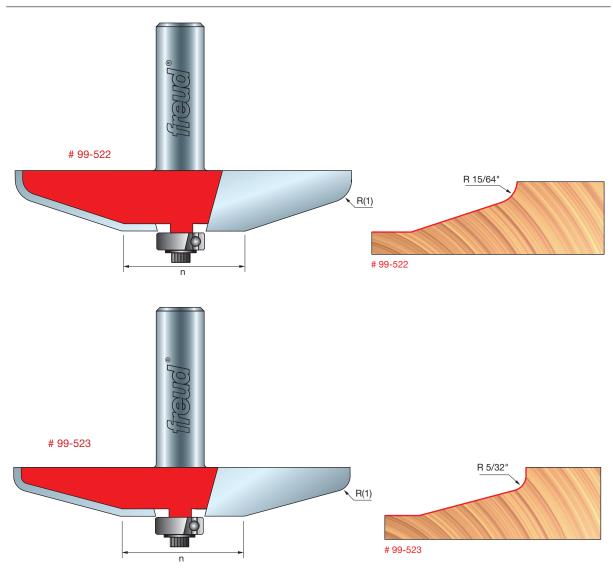




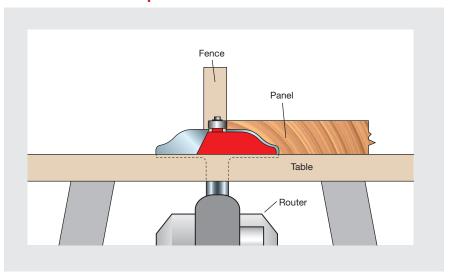






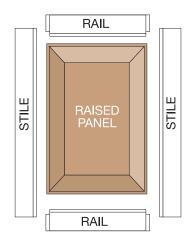


Raised Panel Setup









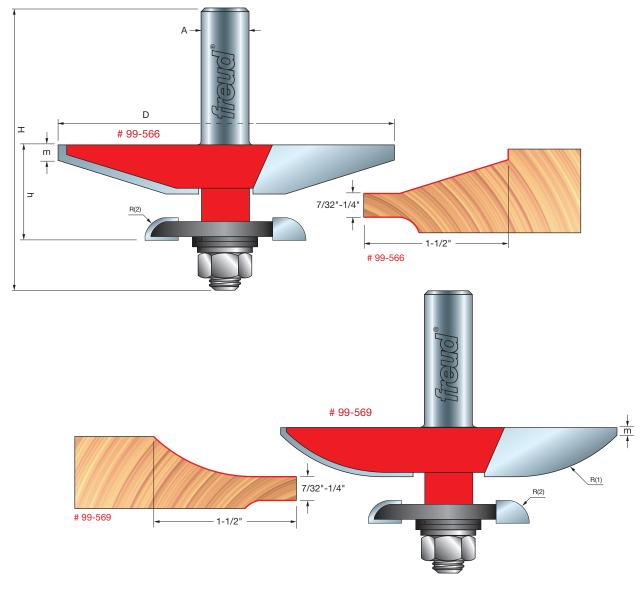
2+2 Raised Panel Bits with Backcutters

Application: Producing panels from 3/4" stock that are flush with the doorframe for a professional, architecturally correct appearance

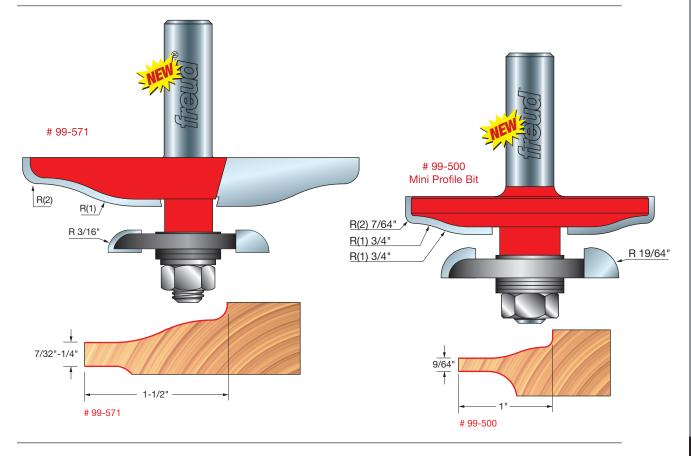
- Exclusive design combines a backcutter with the smooth cuts of Freud's 2+2 Raised Panel Bits.
- Shims are included to allow adjustment of tongue thickness from 7/32" to 1/4" for maximum versatility and compatibility.
- Patented design allows these bits to produce a full 1-1/2" wide reveal for traditional raised panel doors.
- Included 54-562 radius backcutter gives double-sided appearance and can be replaced with optional 54-560 square backcutter for a more contemporary look.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers.

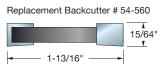
	Item Number	Overall Dia.(D)	Carbide Height(h)	Minor Height(m)	Large Radius(R1)	Small Radius(R2)	Shank Dia.(A)	Overall Length(H)		
	99-566	3-1/2"	1"	5/32"	_	3/16"	1/2"	3"		
	99-569	3-1/2"	1"	5/32"	1-1/2"	3/16"	1/2"	3"		
NEW	→ 99-571	3-1/2"	1"	_	1-3/16"	5/32"	1/2"	3"		
	Optional Rep	lacement E	Backcutters	}						
	54-560	1-7/16"	15/64"	-	-	-	-	-		
	54-562	1-13/16"	15/64"	-	-	3/16"	-	_		
Mini 2+2 Raised Panel Bit										
NEW	→ 99-500	2-19/32"	7/8"	-	3/4"	7/64"	1/2"	2-51/64"		

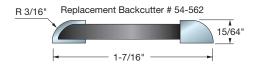
U.S. Patent No. 5,899,252 U.S. Patent No. 6,354,347



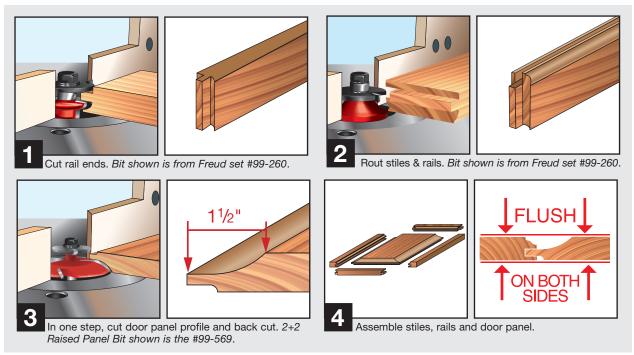
(Continued) 2+2 Raised Panel Bits with Backcutters







Steps To Building A Perfect Panel Door





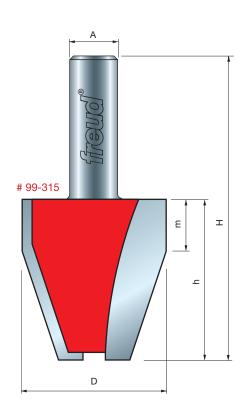


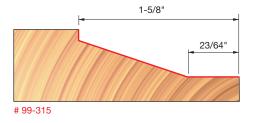
Vertical Raised Panel Bits

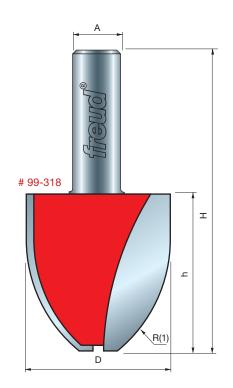
Application: Creates full sized raised panels by feeding 3/4" stock vertically

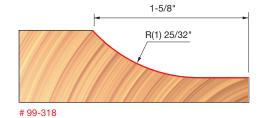
- Small overall diameter makes these bits ideal for lower horsepower routers and single speed routers.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers.

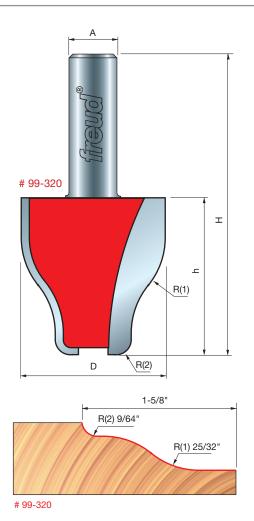
Item Number	Overall Dia.(D)	Carbide Height(h)	Minor Height(m)	Large Radius(R1)	Small Radius(R2)	Shank Dia.(A)	Overall Length(H)
99-315	1-1/2"	1-5/8"	23/64"	_	_	1/2"	3-3/16"
99-318	1-1/2"	1-5/8"	_	1-1/2"	_	1/2"	3-3/16"
99-320	1-1/2"	1-5/8"	_	25/32"	5/32"	1/2"	3-3/16"
99-322	1-1/2"	1-5/8"	23/64"	3/8"	_	1/2"	3-3/16"

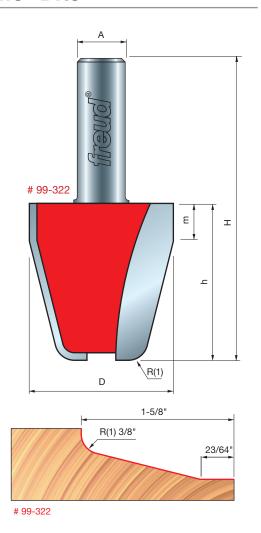




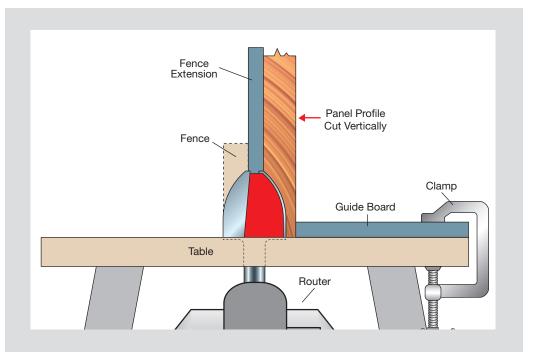








Vertical Panel Bit Setup





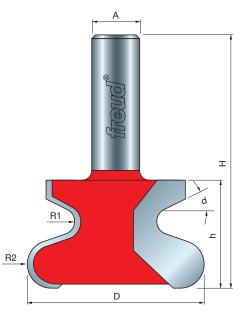


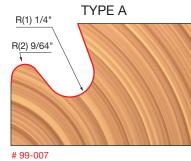
Door Pull Bit

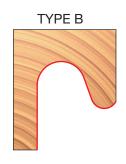
Application: Produces the finger pull groove found on popular contemporary cabinet doors

- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers.

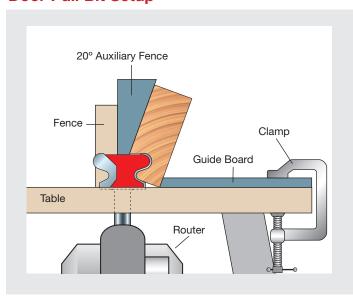
Item Number			Large Radius(R1)	Small Radius(R2)		Shank Dia.(A)	Overall Length(H)
99-007	1-27/32"	1-1/8"	1/4"	9/64"	26-1/2°	1/2"	2-5/8"

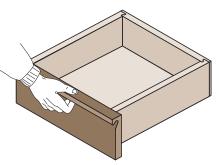


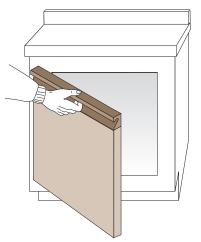




Door Pull Bit Setup







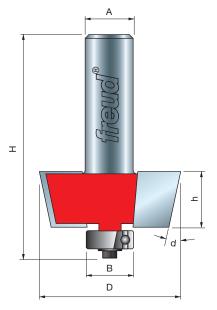


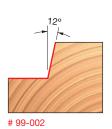
Application: Cutting out the inset portion of a cabinet door

- Use with your choice of face profiles for maximum design versatility.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

Item	Overall	Bearing	Carbide	Angle	Shank	Overall
Number	Dia.(D)	Dia.(B)	Height(h)	(d)	Dia.(A)	Length(H)
99-002	1-1/2"	1/2"	19/32"	12°	1/2"	







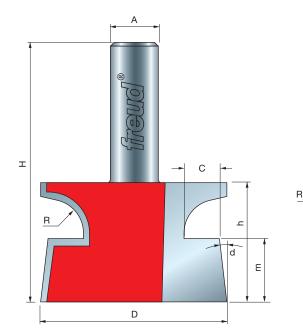


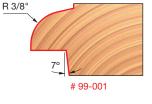
Application: Producing classical door lips on stock from 1/2" to 1-1/4" in thickness



• Use on table-mounted portable routers.













No Lip Door Edge Bit

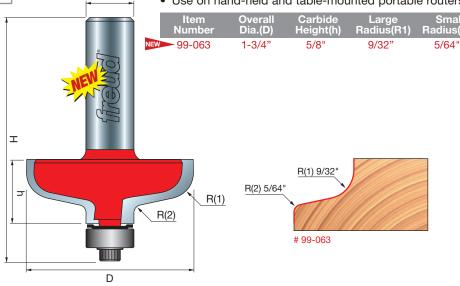
Application: Create a decorative inverted Ogee Profile on the face of door fronts

· Designed to compliment the profile formed on the face of the door created by the 99-064 Finger Pull door edge bit.

1/2"

2-5/8"

- Precise shear angles provide a splinter-free finish,
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.





Finger Pull Door Lip Bit

Application: Creating the finger pull found on popular contemporary cabinet doors

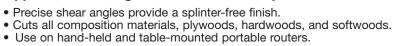
7		•	Cuts allUse on	composi table-mo	tion mat ounted p	terials, ply ortable ro	woods, ha	rdwoods, a	nd softw	oods.	
			Item Number	Overall Dia.(D)	Small Dia.(n)	Carbide Height(h)	Large Radius(R1)	Small Radius(R2)	Angle (d)	Shank Dia.(A)	Overall Length(H)
		NEW	- 99-064	1-3/4"	5/8"	1-3/16"	9/32"	3/32"	-	1/2"	2-5/8"
			99-065	2"	3/4"	1-1/4"	1/4"	-	25°	1/2"	2-3/4"
I		← n	¬		_						
	R(1)	d	R	1/4"	99-065			Ş	NEW MENT		
	Η-		-			R(1) 9/	32" R(2) 3/32	н		R:	R1 22

99-064

Drawer Front Bit

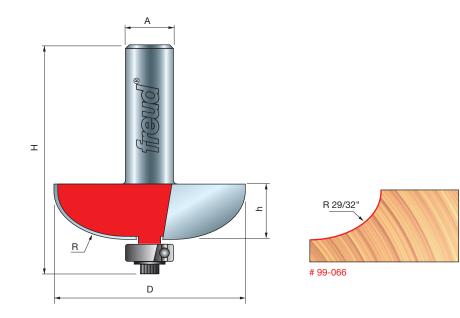
Application: Adding a decorative "raised panel" look to drawer fronts

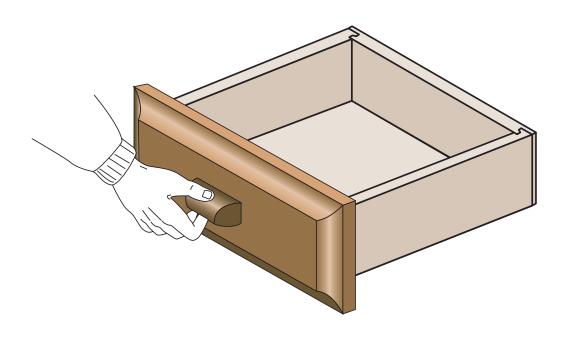




Item	Overall	Carbide	Large	Shank	Overall
Number	Dia.(D)	Height(h)	Radius(R)	Dia.(A)	Length(H)
99-066	2"	9/16"	29/32"	1/2"	















Five Piece Introductory Bit Set

Application: Fundamental bit set for novice woodworkers

- This four-piece set transforms to five pieces by using a bearing to convert the beading bit into a rounding over bit.
- Includes a flush trim, straight, Roman ogee and beading bit.
- All bits have 1/4" shanks.
- Includes attractive wooden storage box and extra bearing.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.











ncluded

42-104

04-108

38-100

36-114

34-114*

Item Number	Overall Dia.	Bearing Dia.					Overall Length
42-104	1/2"	1/2"	1"	2	-	1/4"	2-13/16"
04-108	1/4"	-	1"	2	-	1/4"	2-1/2"
38-100	1-1/16"	3/8"	1/2"	_	5/32"	1/4"	2-3/16"
36-114	1-1/4"	3/8"	5/8"	_	3/8"	1/4"	2-3/16"
34-114	1-1/4"	3/8"	5/8"	-	3/8"	1/4"	2-3/16"
	42-104 04-108 38-100 36-114	Number Dia. 42-104 1/2" 04-108 1/4" 38-100 1-1/16" 36-114 1-1/4" 34-114 1-1/4"	Number Dia. Dia. 42-104 1/2" 1/2" 04-108 1/4" - 38-100 1-1/16" 3/8" 36-114 1-1/4" 3/8" 34-114 1-1/4" 3/8"	Number Dia. Dia. Height 42-104 1/2" 1/2" 1" 04-108 1/4" - 1" 38-100 1-1/16" 3/8" 1/2" 36-114 1-1/4" 3/8" 5/8" 34-114 1-1/4" 3/8" 5/8"	Number Dia. Dia. Height of Flutes 42-104 1/2" 1/2" 1" 2 04-108 1/4" - 1" 2 38-100 1-1/16" 3/8" 1/2" - 36-114 1-1/4" 3/8" 5/8" - 34-114 1-1/4" 3/8" 5/8" -	Number Dia. Dia. Height of Flutes Radius 42-104 1/2" 1/2" 1" 2 - 04-108 1/4" - 1" 2 - 38-100 1-1/16" 3/8" 1/2" - 5/32" 36-114 1-1/4" 3/8" 5/8" - 3/8" 34-114 1-1/4" 3/8" 5/8" - 3/8"	Number Dia. Dia. Height of Flutes Radius Dia. 42-104 1/2" 1/2" 1" 2 - 1/4" 04-108 1/4" - 1" 2 - 1/4" 38-100 1-1/16" 3/8" 1/2" - 5/32" 1/4" 36-114 1-1/4" 3/8" 5/8" - 3/8" 1/4"

^{*} Use included bearing #62-104 to convert 36-114 Beading Bit into 34-114 Rounding Over Bit.







Five Piece Introductory Bit Set

Application: Fundamental bit set for novice woodworkers

- · Freud's new Five Piece Introductory Set provides an economical yet very useful introduction to the wide world of possibilities offered by your 1/2" collet router.
- Includes a flush trim, straight, Roman ogee, and rounding over bit.
- All bits have 1/2" shanks.
- Set comes in Freud's unique shadow box case, this set hangs on the wall or mounts on the bench to keep bits handy and safe.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.





*Beading Bit









2-5/8"

Bit Type Numbe Item Number 91-103 Bearing Flush Trim Bit 42-110 1/21 1/2" 2 1/21 3-1/4" 3/4" Double Flute Straight Bit 12-100 1/4" 2 1/21 2-3/8" Roman Ogee Bit 1/2" 3/8" 5/32 1/2" 2-3/8" 38-104 1-1/16 Rounding Over Bit 34-124 1-1/4" 1/2" 5/8" 3/8" 1/2" 2-5/8"

1-1/4"

36-124

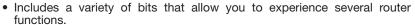
3/81

^{*} Use included bearing #62-104 to convert 34-124 Beading Bit into 36-124 Rounding Over Bit.

CNC

Nine Piece Basic Bit Set

Application: Ideal starter set for the beginning woodworker



- Set comes in Freud's unique shadow box case that can hang on the wall or mount on the bench to keep bits handy and safe.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.







12-116, # 12-108







16-100, # 16-110

32-100, # 32-102 # 22-104, # 22-112











	#	34-110), #	34-1	120
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38-100, # 38-106 # 42-104, # 42-109

70-100

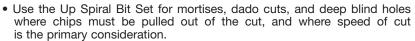
20-108

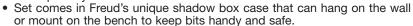
Bit Type	Item	Overall	Bearing	Carbide		Angle	Large	Shank	Overall
	Number	Dia.	Dia.	Height	of Flutes		Radius	Dia.	Length
Item Number 88-100 (9 pc. 1/	/4" Shank Se	et)							
Double Flute Straight Bit*	04-104	1/4"	-	1/2"	-	-	-	1/4"	2"
Double Flute Straight Bit	04-124	3/8"	_	1"	_	-	-	1/4"	2-1/2"
Mortising Bit	16-100	1/2"	-	1/2"	-	-	-	1/4"	2"
Dovetail Bit	22-104	1/2"	-	1/2"	-	14°	-	1/4"	1-7/8"
Rabbeting Bit	32-100	1-1/4"	1/2"	1/2"	_	-	-	1/4"	2"
Rounding Over Bit	34-110	1"	1/2"	1/2"	-	-	1/4"	1/4"	2-3/16
Roman Ogee Bit	38-100	1-1/16"	3/8"	1/2"	-	-	5/32"	1/4"	2-3/16
Bearing Flush Trim Bit	42-102	3/8"	3/8"	1/2"	2	_	_	1/4"	2-5/16
Panel Pilot Bit*	70-100	1/4"	-	1/4"	1	-	-	1/4"	1-5/8"
►Item Number 91-108 (9 pc. 1/	/2" Shank Se	et)							
Double Flute Straight Bit	12-116	1/2"	_	1"	-	_	_	1/2"	2-5/8"
Double Flute Straight Bit	12-108	3/8"	_	1"	_	_	_	1/2"	2-5/8"
Mortising Bit	16-110	1/2"	_	1/2"	_	_	_	1/2"	2-3/81
Dovetail Bit	22-112	1/2"	_	1/2"	_	14°	_	1/2"	2-1/4'
Rabbeting Bit	32-102	1-1/4"	1/2"	1/2"	_	_	-	1/2"	2-1/4
Rounding Over Bit	34-120	1"	1/2"	1/2"	_	_	1/4"	1/2"	2-1/2"
Roman Ogee Bit	38-106	1-3/8"	3/8"	1/2"	_	_	5/32"	1/2"	2-3/8"
Bearing Flush Trim Bit	42-109	1/2"	1/2"	1/2"	2	_	_	1/2"	2-7/8
"V" Grooving Bit	20-108	3/4"	_	1/2"	_	90°	_	1/2"	2-1/4
Solid Carbide									

Solid Carbide

Five Piece Up Spiral Bit Set

Application: Quickly create grooves, mortises, and dadoes with chip removal





- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- · Use on CNC and other automatic routers as well as hand-held and tablemounted portable routers.







90-150

* Solid Carbide











5 Piece Down Spiral Bit Set

Application: Create chip-free top surface mortises and dadoes

- The Down Spiral Bit Set is the ideal choice for grooves and dadoes in delicate materials, or any application where chip removal is not a concern.
- Set comes in Freud's unique shadow box case that can hang on the wall or mount on the bench to keep bits handy and safe.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on CNC and other automatic routers as well as hand-held and tablemounted portable routers.

	Bit Type	Item Number	Overall Dia.	Carbide Height	Shank Dia.	Overall Length	
	NEW Item Number 90-160						
	Down Spiral Bit*	76-101	3/16"	3/4"	1/4"	2"	ĺ
	Down Spiral Bit*	76-102	1/4"	1"	1/4"	2-1/2"	
1	Down Spiral Bit*	76-104	5/16"	1"	1/2"	2-1/2"	
	Down Spiral Bit*	76-106	3/8"	1-1/4"	1/2"	3"	
	Down Spiral Bit*	76-108	1/2"	1-1/4"	1/2"	3"	







76-101, # 76-102 # 76-104, # 76-106 # 76-108

Four Piece Undersized Plywood Bit Set

Application: Creates perfectly fitted grooves and dadoes

- Designed to cut today's undersized plywood; ideal for 1/4" to 3/4" plywood.
- Set comes in Freud's unique shadow box case that can hang on the wall or mount on the bench to keep bits handy and safe.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

Bit Type	Item Number	Overall Dia.	Carbide Height	Shank Dia.	Overall Length	
Item Number 90-106 (4 pc.	1/4" Shank Set)					
Double Flute Straight Bit*	04-111	7/32"	3/4"	1/4"	2"	
Mortising Bit	16-103	23/32"	1/2"	1/4"	1-3/4"	
Mortising Bit	16-096	11/32"	1/2"	1/4"	2"	
Mortising Bit	16-098	15/32"	1/2"	1/4"	2"	
► Item Number 89-650 (4 pc.	1/2" Shank Set)					
Down Shear Mortising Bit	16-094	7/32"	1/2"	1/2"	2-1/4"	
Down Shear Mortising Bit	16-107	11/32"	1/2"	1/2"	2-1/4"	
Down Shear Mortising Bit	16-109	15/32"	1/2"	1/2"	2-1/4"	
Mortising Bit	16-116	23/32"	3/8"	1/2"	2-1/8"	
* 0 !! 1 0 ! ! !						

^{*} Solid Carbide

* Solid Carbide

16-103, # 16-069 # 16-098, # 04-111 # 16-094, # 16-107 # 16-109, # 16-116





91-104

Six Piece Starter Bit Set

Application: Includes a variety of profiles ideal for the beginning woodworker

- Enables a novice woodworker to be very creative with a minimum
- investment.
 Set comes in Freud's unique shadow box case that can hang on the wall or mount on the bench to keep bits handy and safe.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.





30-114



32-102







40-114



Bit Type	Item Number	Overall Dia.	Bearing Dia.		Number of Flutes	Large Radius		Overall Length
Item Number 91-104 (6 pc. 1/2	" Shank Se	et)						
Round Nose Bit	18-116	1/2"	-	1-1/8"	-	1/4"	1/2"	2-13/16"
Cove Bit	30-114	1-1/2"	1/2"	5/8"	_	1/2"	1/2"	2-1/2"
Rabbeting Bit	32-102	1-1/4"	1/2"	1/2"	_	_	1/2"	2-1/4"
Rounding Over Bit	34-124	1-1/4"	1-1/2"	5/8"	_	3/8"	1/2"	2-5/8"
Roman Ogee Bit	38-106	1-3/8"	3/8"	23/32"	_	1/4"	1/2"	2-9/16"
Chamfer Bit	40-114	1-3/4"	1/2"	5/8"	45°	-	1/2"	2-9/16"



15 Piece Advanced Bit Set

Application: Offers a variety of useful bits, from "V" grooving and flush trimming to chamfering and dovetailing

- All bits have 1/4" shanks.
- Set comes in Freud's unique shadow box case that can hang on the wall or mount on the bench to keep bits handy and safe.
- Cuts all composition materials, plywood, hardwood, and softwood.
- Use on hand-held and table-mounted portable routers.













20-104

22-104

















40-106 # 42-104, # 64-100

66-100

Bit Type	Item Number	Overall Dia.	Bearing Dia.	Carbide Height	Number of Flutes	Angle	Large Radius	Shank Dia.	Overall Length
Item Number 90-100									
Double Flute Straight Bit*	04-106	1/4"	-	3/4"	-	-	-	1/4"	2-1/4"
Double Flute Straight Bit	04-140	3/4"	-	3/4"	-	-	_	1/4"	2-1/8"
Mortising Bit	16-100	1/2"	-	1/2"	-	-	-	1/4"	2"
Round Nose Bit*	18-104	1/4"	_	3/8"	-	_	1/8"	1/4"	2"
"V" Grooving Bit	20-104	1/2"	-	7/16"	-	90°	-	1/4"	1-3/4"
Dovetail Bit	22-104	1/2"	-	1/2"	-	14°	-	1/4"	1-7/8"
Panel Pilot Bit	26-100	1/4"	-	3/4"	1	-	-	1/4"	2-1/4"
Cove Bit	30-106	1-3/8"	3/8"	5/8"	-	_	1/2"	1/4"	2-3/16"
Rabbeting Bit	32-100	1-1/4"	1/2"	1/2"	-	-	-	1/4"	2"
Rounding Over Bit	34-114	1-1/4"	1/2"	5/8"	-	-	3/8"	1/4"	2-3/16"
Roman Ogee Bit	38-100	1-1/16"	3/8"	1/2"	-	-	5/32"	1/4"	2-3/16"
Chamfer Bit	40-106	1-3/4"	1/2"	5/8"	-	45°	_	1/4"	2-3/16"
Bearing Flush Trim Bit	42-106	1/2"	1/2"	1/2"	2	-	-	1/4"	2-1/8"
Flush Trim Bit*	64-100	1/4"	_	3/8"	-	_	_	1/4"	1-1/2"
Bevel Trim Bit*	66-100	1/4"	3/16"	1/4"	-	7°	-	1/4"	1-1/2"

^{*} Solid Carbide











Included

26 Piece Artisan Bit Set

Application: The best set for the professional and serious woodworker

- Offers the craftsman a wide range of bits, including: "V" grooving, rounding over, Roman ogee, flush trim, chamfer and many other popular profiles.
- All bits have 1/4" shanks.
- Set comes in Freud's unique shadow box case that can hang on the wall or mount on the bench to keep bits handy and safe.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.



04-104, # 04-106 # 04-108, # 04-140



16-100



18-104. # 18-106



20-100, # 20-104



22-104



26-100



30-102, # 30-106



32-100







36-110, # 36-114



38-100, # 38-102



40-106



42-100, # 42-104 # 42-106, # 64-100



66-100

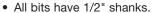
Bit Type	Item Number	Overall Dia.	Bearing Dia.	Carbide Height	Number of Flutes	Angle	Large Radius	Shank Dia.	Overall Length
Item Number 92-100									
Double Flute Straight Bit*	04-100	1/8"	-	3/8"	-	-	-	1/4"	1-3/4"
Double Flute Straight Bit*	04-106	1/4"	-	3/4"	-	-	-	1/4"	2-1/4"
Double Flute Straight Bit*	04-108	1/4"	-	1"	-	-	-	1/4"	2-1/2"
Double Flute Straight Bit	04-140	3/4"	-	3/4"	-	-	-	1/4"	2-1/8"
Mortising Bit	16-100	1/2"	-	1/2"	-	-	-	1/4"	2"
Round Nose Bit*	18-104	1/4"	-	3/8"	-	-	1/8"	1/4"	2"
Round Nose Bit	18-106	3/8"	-	3/8"	-	-	3/16"	1/4"	1-13/16"
"V" Grooving Bit*	20-100	1/4"	-	1/4"	_	90°	-	1/4"	1-1/2"
"V" Grooving Bit	20-104	1/2"	-	7/16"	-	90°	-	1/4"	1-3/4"
Dovetail Bit	22-104	1/2"	-	1/2"	-	14°	-	1/4"	1-7/8"
Panel Pilot Bit*	26-100	1/4"	-	3/4"	1	-	-	1/4"	2-1/4"
Cove Bit	30-102	7/8"	3/8"	1/2"	-	-	1/4"	1/4"	2-3/16"
Cove Bit	30-106	1-1/2"	1/2"	5/8"	-	-	1/2"	1/4"	2-3/16"
Rabbeting Bit	32-100	1-1/4"	1/2"	1/2"	_	-	-	1/4"	2"
Rounding Over Bit	34-110	1"	1/2"	1/2"	-	-	1/4"	1/4"	2-3/16"
Rounding Over Bit	34-114	1-1/4"	1/2"	1/4"	_	-	3/8"	1/4"	2-3/16"
Beading Bit	36-110	1"	3/8"	1/2"	-	-	1/4"	1/4"	2-3/16"
Beading Bit	36-114	1-1/4"	3/8"	5/8"	-	-	3/8"	1/4"	2-3/16"
Roman Ogee Bit	38-100	1-1/16"	3/8"	1/2"	-	-	5/32"	1/4"	2-3/16"
Roman Ogee Bit	38-102	1-3/8"	3/8"	23/32"	-	_	1/4"	1/4"	2-3/8"
Chamfer Bit	40-106	1-3/4"	1/2"	1/4"	-	45°	-	1/4"	2-3/16"
Bearing Flush Trim Bit	42-100	3/8"	3/8"	1"	2	_	_	1/4"	2-13/16"
Bearing Flush Trim Bit	42-104	1/2"	1/2"	1"	2	-	-	1/4"	2-13/16"
Bearing Flush Trim Bit	42-106	1/2"	1/2"	1/2"	2	_	_	1/4"	2-1/8"
Flush Trim Bit*	64-100	1/4"	-	3/8"	-	-	-	1/4"	1-1/2"
Bevel Trim Bit*	66-100	1/4"	3/16"	1/4"	-	7°	-	1/4"	1-1/2"

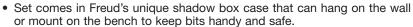
^{*} Solid Carbide

freud®

13 Piece Super Bit Set

Application: Offers a mix of woodworkers' favorite bits, including "V" grooving, flush trimming, chamfering and dovetailing





· Cuts all composition materials, plywoods, hardwoods, and softwoods.

• Use on hand-held and table-mounted portable routers.













22-112



91-100











Bit Type	Item Number	Overall Dia.	Bearing Dia.	Carbide Height	Number of Flutes	Angle	Large Radius	Shank Dia.	Overall Length
Item Number 91-100									
Double Flute Straight Bit	12-100	1/4"	-	3/4"	-	_	-	1/2"	2-3/8"
Double Flute Straight Bit	12-116	1/2"	_	1"	_	_	_	1/2"	2-5/8"
Double Flute Straight Bit	12-152	3/4"	_	1"	_	_	_	1/2"	2-1/2"
Mortising Bit	16-110	1/2"	_	1/2"	_	_	_	1/2"	2-3/8"
Round Nose Bit	18-114	1/4"	_	3/8"	_	_	1/8"	1/2"	2-1/4"
"V" Grooving Bit	20-108	3/4"	_	1/2"	_	90°	_	1/2"	2-1/4"
Dovetail Bit	22-112	1/2"	_	1/2"	_	14°	_	1/2"	2-1/4"
Cove Bit	30-114	1-1/2"	1/2"	5/8"	_	_	1/2"	1/2"	2-1/2"
Rabbeting Bit	32-102	1-1/4"	1/2"	1/2"	_	_	_	1/2"	2-1/4"
Rounding Over Bit	34-124	1-1/4"	1/2"	5/8"	_	_	3/8"	1/2"	2-5/8"
Roman Ogee Bit	38-106	1-3/8"	3/8"	23/32"	-	_	1/4"	1/2"	2-9/16"
Chamfer Bit	40-114	1-3/4"	1/2"	5/8"	_	45°	_	1/2"	2-9/16"
Bearing Flush Trim Bit	42-110	1/2"	1/2"	1"	2	_	_	1/2"	3-1/4"



Three Piece Vertical Raised Panel Sets

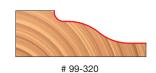
Application: Combines our most popular rail and stile bit sets with a vertical ogee raised panel bit

- All bits have 1/2" shanks and are designed to be used on 3/4" stock.
- Includes attractive wooden storage box.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable router with 1/2"shank.



97-604





	# 99-260	# 99-26	51
Bit Type	Item Number	Bearing	

Bit Type	Item Number		Bearing Dia.		Number of Flutes	Angle	Large Radius	Shank Dia.	Overall Length
Item Number 97-504									
Rail & Stile Bit Set	99-260	1-11/16"	15/16"	11/16"	15/64"	7/32"	-	1/2"	3"
Vertical Raised Panel Bit	99-320	1-1/2"	_	1-5/8"	_	25/32"	5/32"	1/2"	3-3/16"
Item Number 97-604									
Rail & Stile Bit Set	99-261	1-11/16"	1-19/32"	23/32"	15/64"	13/64"	_	1/2"	3"
Vertical Raised Panel Bit	99-320	1-1/2"	-	1-5/8"	_	25/32"	5/32"	1/2"	3-3/16"

Bit Type

Three Piece Cabinet Bit Set Application: Combines our most popular rail and stile bit sets

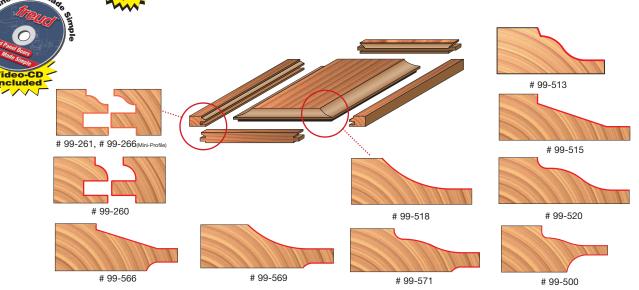
with one of our exclusive 2+2 Raised Panel Bits

- All bits have 1/2" shanks and are designed to be used on 3/4" stock.
- Includes attractive wooden storage box.

97-204

- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers with 1/2" shank.

Item Overall Small Carbide Minor Large Small

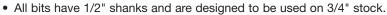


- 1		Number	Dia.	Dia.	Height	Height	Radius	Radius	Dia.	Length
	Item Number 97-100									
	Rail & Stile Bit Set	99-260	1-11/16"	1-5/16"	11/16"	15/64"	7/32"	_	1/2"	3"
	2 + 2 Raised Panel Bit	99-515	3-1/2"	1-1/4"	5/8"	5/32"	_	_	1/2"	2-1/2"
	Item Number 97-102									
	Rail & Stile Bit Set	99-260	1-11/16"	1-5/16"	11/16"	15/64"	7/32"	_	1/2"	3"
	2 + 2 Raised Panel Bit	99-518	3-1/2"	-	5/8"	5/64"	1-1/2"	_	1/2"	2-1/2"
	Item Number 97-104									
	Rail & Stile Bit Set	99-260	1-11/16"	1-5/16"	11/16"	15/64"	7/32"	_	1/2"	3"
	2 + 2 Raised Panel Bit	99-520	3-1/2"	_	5/8"	7/32"	25/32"	5/32"	1/2"	2-1/2"
	Item Number 97-200									
	Rail & Stile Bit Set	99-261	1-11/16"	1-19/32"	23/32"	15/64"	13/64"	_	1/2"	3"
	2 + 2 Raised Panel Bit	99-515	3-1/2"	1-1/4"	5/8"	5/32"	_	_	1/2"	2-1/2"
	Item Number 97-202									
	Rail & Stile Bit Set	99-261	1-11/16"	1-19/32"	23/32"	15/64"	13/64"	_	1/2"	3"
	2 + 2 Raised Panel Bit	99-518	3-1/2"	_	5/8"	5/64"	1-1/2"	_	1/2"	2-1/2"
	Item Number 97-204									
	Rail & Stile Bit Set	99-261	1-11/16"	1-19/32"	23/32"	15/64"	13/64"	_	1/2"	3"
	2 + 2 Raised Panel Bit	99-520	3-1/2"	-	5/8"	7/32"	25/32"	5/32"	1/2"	2-1/2"
	Item Number 97-226									
	Rail & Stile Bit Set	99-261	1-11/16"	1-19/32"	23/32"	15/64"	13/64"	-	1/2"	3"
	2 + 2 Raised Panel Bit	99-513	2-3/4"	_	5/8"	15/64"	7/16"	_	1/2"	2-1/2"
	Cabinet Sets with Backcutters									
NEW	Item Number 97-106 (Raised Par	nel Bit With	Backcutte	rs)						
	Rail & Stile Bit Set	99-260	1-11/16"	1-5/16"	11/16"	15/64"	7/32"	_	1/2"	3"
	2 + 2 Raised Panel Bit	99-566	3-1/2"	_	1"	5/32"	_	3/16"	1/2"	3"
NEW	Item Number 97-108 (Raised Par	nel Bit With	Backcutte	rs)						
	Rail & Stile Bit Set	99-260	1-11/16"	1-5/16"	11/16"	15/64"	7/32"	_	1/2"	3"
	2 + 2 Raised Panel Bit	99-569	3-1/2"	_	1"	5/32"	1-1/2"	3/16"	1/2"	3"
NEW	ltem Number 97-208 (Raised Par	nel Bit With	Backcutte	rs)						
	Rail & Stile Bit Set	99-261		1-19/32"	23/32"	15/64"	13/64"	-	1/2"	3"
_	2 + 2 Raised Panel Bit	99-569	3-1/2"	_	1"	5/32"	1-1/2"	3/16"	1/2"	3"
NEW	Item Number 97-210 (Raised Par	nel Bit With	Backcutte	rs)						
	Rail & Stile Bit Set	99-261	1-11/16"	1-19/32"	23/32"	15/64"	13/64"	_	1/2"	3"
	2 + 2 Raised Panel Bit	99-571	3-1/2"	_	1"	_	1-3/16"	5/32"	1/2"	3"
NEW	ltem Number 97-904 (Mini Raised	d Panel Bit \	With Back	cutters)						
	Rail & Stile Bit Set	99-266	1-9/32"	25/32"	13/16"	-	-	-	1/2"	2-11/16"
	2 + 2 Raised Panel Bit	99-500	2-19/32"	-	7/8"	_	3/4"	7/64"	1/2"	2-51/64"

Shank Overall



Application: Produce your own cabinet doors at a fraction of the cost of shaper heads

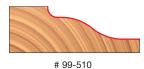


- Includes attractive wooden storage box.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers with 1/2" shank.





94-100



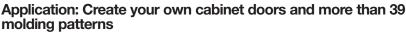


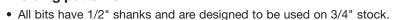


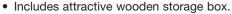
Bit Type	Item Number	Overall Dia.	Cut Depth	Small Dia.	Carbide Height	Minor Height	Large Radius			Shank Dia.	Overall Length
Item Number 94-100											
Door Lip Bit	99-001	2"	29/64"	_	1-1/4"	11/16"	3/8"	_	7°	1/2"	2-3/4"
2 + 2 Raised Panel Bit	99-510	2-3/4"	_	_	5/8"	7/32"	35/64"	1/8"	_	1/2"	2-1/2"
Reversible Glue Joint Bit	99-031	1-1/2"	_	1-3/16"	1-1/4"	23/64"	_	_	30°	1/2"	2-3/4"
Rail & Stile Bit Set	99-260	1-11/16"	_	1-5/16"	11/16"	15/64"	7/32"	_	_	1/2"	3"

Five Piece Cabinet & Molding Bit Set





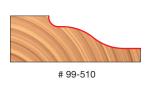


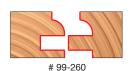


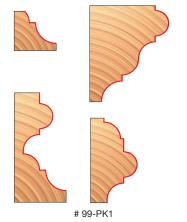
• Cuts all composition materials, plywoods, hardwoods, and softwoods.

• Use on shank table-mounted portable router with 1/2" shank.









Bit Type	Item Number	Overall Dia.	Small Dia.	Carbide Height	Minor Height	Large Radius	Small Radius1			Shank Dia.	Overall Length
Item Number 95-100											
Reversible Glue Joint Bit	99-031	1-1/2"	1-3/16"	' 1-1/4"	23/64"	-	-	-	30°	1/2"	2-3/4"
2 + 2 Raised Panel Bit	99-510	2-3/4"	_	5/8"	7/32"	35/64"	1/8"	_	_	1/2"	2-1/2"
Multi-Profile Bit	99-PK1	2-5/32"	-	1-59/64"	-	25/64"	5/16"	15/64"	_	1/2"	4"
Rail & Stile Bit Set	99-260	1-11/16"	1-5/16"	1-1/16"	15/64"	7/32"	_	_	_	1/2"	3"

99-031

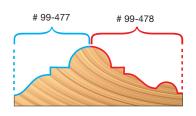


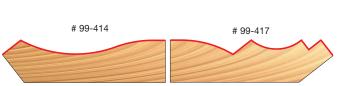
New Architectural Molding Set

Application: Add elegant detail to any room of the home with the most popular molding profiles. Includes bits to decorate the wall from top to bottom!

- Set of six 1/2" shank bits mill beautiful Crown, Casing, Chair Rail and Base Molding.
- Add beautiful, traditional molding to ceilings, doors, windows, built-ins and many other projects.
- Use with hardwoods or softwoods to mill stain grade molding. Also routs composition materials.
- Use only with 1/2" shank table-mounted, CNC or automatic routers.

Note: For best results make two or more passes.





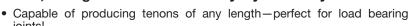
	3
# 00 466	
# 00 466	400 4

	Bit Type	Item Number	Overall Dia.	Carbide Height	Shank Dia.	Overall Length
NEW	Item Number 93-200					
	Base Cap #163	99-480	1-3/4"	1-1/2"	1/2"	3"
	Casing #366	99-466	1-1/2"	1-13/16"	1/2"	3-9/32"
	Crown Bit, upper profile #1	99-414	1-5/16"	3"	1/2"	4-7/16"
	Crown Bit, lower profile #4	99-417	1-3/8"	3-1/16"	1/2"	4-9/16"
	Chair Rail #300, upper bit	99-477	2-1/4"	1-1/2"	1/2"	3"
	Chair Rail #300, lower bit	99-478	2-3/16"	1-13/16"	1/2"	3-5/16"



Three Piece Door Construction Set

Application: Create 1-3/4" thick exterior doors, 1-3/8" interior doors, sidelights or transoms in any style and any size

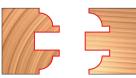


- Both bits include shims for fine-tuning the joint for a continued perfect fit.
- Perfect for milling fine hardwoods and softwoods, and also produces an excellent cut in other materials.
- Includes an instructional mini-DVD and an informative poster.
- Use on table-mounted portable routers.



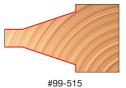






#99-267







#99-518

Length

3" 2-1/2"

3"

2-1/2"

Bit Type Number Item Number 98-300 Roundover 99-267 1-3/4" 2+2 Raised Panel Bit 99-515 3-1/2" Item Number 98-302 99-267 1-3/4 Roundover 2+2 Raised Panel Bit 99-518 3-1/2"

1/21

1/2'

1/2

1/2"

Height

1-1/21

5/8"

1-1/2'

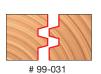
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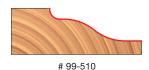
Advanced Cabinet Door Set



Application: Create cabinet doors and drawers at a fraction of the cost of shaper heads

- Similar to Freud's 94-100 with a Drawer Lock Bit to produce a strong joint for cabinet drawers.
- All bits have 1/2" shanks and are designed to be used on 3/4" stock.
- Includes attractive wooden storage box.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable router with 1/2" shank.









240		#	99

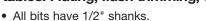
Bit Type	Item Number	Overall Dia.	Small Dia.	Carbide Height	Minor Height	Large Radius	Small Radius	Angle	Shank Dia.	Overall Length
Item Number 95-200										
Reversible Glue Joint Bit	99-031	1-1/2"	1-3/16"	1-1/4"	23/64"	_	_	30°	1/2"	2-3/4"
2 + 2 Raised Panel Bit	99-510	2-3/4"	_	5/8"	7/32"	35/64"	1/8"	_	1/2"	2-1/2"
Drawer Lock Bit	99-240	2"	1-3/4"	33/64"	5/32"	_	_	30°	1/2"	2"
Rail & Stile Bit Set	99-260	1-11/16"	1-5/16"	11/16"	15/64"	7/32"	_	_	1/2"	3"



93_100

Nine Piece Table Making Set

Application: Includes a variety of bits ideal for creating tables: Fluting, flush trimming, chamfering, and others



- Includes attractive wooden storage box.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.





# 55-100	# 99-027)	# 99-031
	W 00 111				
	# 30-114				# 12-122
	# 18-116	# 34-126	# 99-013	# 99-240	

Bit Type	Item Number	Overall Dia.	Bearing Dia.	Small Dia.	Carbide Height	Minor Height	Large Radius		Angle	Shank Dia.	Overall Length
Item Number 93-100											
Bearing Flush Trim Bit	42-110	1/2"	1/2"	-	1"	-	-	-	-	1/2"	3-1/4"
Round Nose Bit	18-116	1/2"	_	_	1-1/8"	_	1/4"	_	-	1/2"	2-13/16"
Drawer Lock Bit	99-240	2"	-	1-3/4"	33/64"	5/32"	-	_	30°	1/2"	2"
Reversible Glue Joint Bit	99-031	1-1/2"	_	1-3/16"	1-1/4"	23/64"	_	_	30°	1/2"	2-3/4"
Rounding Over Bit	34-126	1-1/2"	1/2"	_	3/4"	-	1/2"	_	-	1/2"	2-3/4"
Face Molding Bit	99-013	15/16"	1/2"	_	1-3/8"	5/32"	21/64"	9/64"	_	1/2"	3-1/4"
Table Edge Bit	99-027	2-19/32"	1/2"	-	23/32"	-	1-25/32"	13/64"	-	1/2"	2-5/8"
Double Flute Straight Bit	12-122	1/2"	_	_	1-1/2"	_	_	_	_	1/2"	3-1/8"
Cove Bit	30-114	1-1/2"	1/2"	_	5/8"	_	1/2"	_	-	1/2"	2-1/2"











#96-100

Eight Piece Bit Sets for Incra Jig®

Application: Create dovetail and box joints by combining these bits with your table-mounted router equipped with an Incra Jig®

- Follow the directions in the Incra Jig® manual and use the correct bit number for the joint you want to create.
- Both sets produce identical profiles.
- · Includes attractive wooden storage box.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on table-mounted portable routers equipped with Incra Jig®.
- Can also be used with other joint making jigs or fence systems and CNC automatice routers.







Dovetail Bit Profile

Bit Type	Item Number	Overall Dia.	Carbide Height	Angle	Shank Dia.	Overall Length
Item Number 96-100						
Double Flute Straight Bit*	04-106	1/4"	3/4"	-	1/4"	2-1/4"
Double Flute Straight Bit	04-124	3/8"	1"	-	1/4"	2-1/2"
Dovetail Bit	22-100	1/4"	5/16"	7-1/2°	1/4"	2"
Dovetail Bit	22-101	5/16"	3/8"	9°	1/4"	1-7/8"
Dovetail Bit	22-102	3/8"	3/8"	9°	1/4"	1-7/8"
Dovetail Bit	22-104	1/2"	1/2"	14°	1/4"	1-7/8"
Dovetail Bit	22-105	3/8"	7/8"	7°	1/4"	2-1/8"
Dovetail Bit	22-106	3/4"	7/8"	7°	1/4"	2-1/8"
Item Number 96-102						
Double Flute Straight Bit	12-100	1/4"	3/4"	-	1/2"	2-3/8"
Double Flute Straight Bit	12-108	3/8"	1"	_	1/2"	2-5/8"
Dovetail Bit	22-107	1/4"	5/16"	7-1/2°	1/2"	2-5/8"
Dovetail Bit	22-108	5/16"	3/8"	9°	1/2"	2-1/8"
Dovetail Bit	22-110	3/8"	3/8"	9°	1/2"	2-1/4"
Dovetail Bit	22-112	1/2"	1/2"	14°	1/2"	2-1/4"
Dovetail Bit	22-113	5/8"	7/8"	7°	1/2"	2-5/8"
Dovetail Bit	22-114	3/4"	7/8"	7°	1/2"	2-5/8"

^{*} Solid Carbide

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Three Piece Cove Bit Sets

Application: Produces classical decorative edge on furniture and moldings

- Includes 1/4", 3/8" and 1/2" radius cove bits and an attractive wooden storage box.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.



Cove Bit Profile

Bit Type	Item Number	Overall Dia.	Bearing Dia.	Carbide Height	Large Radius	Shank Dia.	Overall Length
Item Number 89-500							
Cove Bit	30-102	7/8"	3/8"	1/2"	1/4"	1/4"	2-3/16"
Cove Bit	30-104	1-1/4"	1/2"	1/2"	3/8"	1/4"	2-3/16"
Cove Bit	30-106	1-1/2"	1/2"	5/8"	1/2"	1/4"	2-3/16"
Item Number 89-550							
Cove Bit	30-110	1"	1/2"	1/2"	1/4"	1/2"	2-1/2"
Cove Bit	30-112	1-1/4"	1/2"	1/2"	3/8"	1/2"	2-1/2"
Cove Bit	30-114	1-1/2"	1/2"	5/8"	1/2"	1/2"	2-1/2"

Three Piece Round Over/Beading Bit Sets



89-150

Application: Rounding over bits soften the edges of fine furniture, while beading bits produce a simple, decorative edge on furniture and moldings

- Includes three rounding over bits and a 3/8" bearing which will convert all three bits into beading bits for the ultimate in value.
- Rounding over bits soften the edges of fine furniture.
- Beading bits produce a simple, decorative edge on furniture & moldings
- Set comes in Freud's unique shadow box case that can hang on the wall or mount on the bench to keep bits handy and safe.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.













Bit Type	Item Number	Overall Dia.	Bearing Dia.	Carbide Height	Large Radius	Shank Dia.	Overall Length
Item Number 89-100							
Rounding Over Bit	34-108	7/8"	1/2"	1/2"	3/16"	1/4"	2-3/16"
Rounding Over Bit	34-114	1-1/4"	1/2"	5/8"	3/8"	1/4"	2-3/16"
Rounding Over Bit	34-116	1-1/2"	1/2"	3/4"	1/2"	1/4"	2-1/2"
Item Number 89-150							
Rounding Over Bit	34-120	1"	1/2"	1/2"	1/4"	1/2"	2-1/2"
Rounding Over Bit	34-124	1-1/4"	1/2"	5/8"	3/8"	1/2"	2-5/8"
Rounding Over Bit	34-126	1-1/2"	1/2"	3/4"	1/2"	1/2"	2-3/4"

Five Piece Round Over/Beading Bit Sets





89-152

Application: Similar to the Three Piece Sets, these sets offer additional profiles for a wider range of applications

- Includes five rounding over bits and a 3/8" bearing which will convert all five bits into beading bits for the ultimate in value.
- Rounding over bits soften the edges of fine furniture.
- Beading bits produce a simple, decorative edge on furniture &
- Set comes in Freud's unique shadow box case that can hang on the wall or mount on the bench to keep bits handy and safe.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.

















Bit Type	Item Number	Overall Dia.	Bearing Dia.	Carbide Height	Large Radius	Shank Dia.	Overall Length
Item Number 89-102							
Rounding Over Bit	34-104	3/4"	1/2"	1/2"	1/8"	1/4"	2-3/16"
Rounding Over Bit	34-108	7/8"	1/2"	1/2"	3/16"	1/4"	2-3/16"
Rounding Over Bit	34-110	1"	1/2"	1/2"	1/4"	1/4"	2-3/16"
Rounding Over Bit	34-114	1-1/4"	1/2"	5/8"	3/8"	1/4"	2-3/16"
Rounding Over Bit	34-116	1-1/2"	1/2"	3/4"	1/2"	1/4"	2-1/2"
Item Number 89-152							
Rounding Over Bit	34-118	3/4"	1/2"	1/2"	1/8"	1/2"	2-1/2"
Rounding Over Bit	34-120	1"	1/2"	1/2"	1/4"	1/2"	2-1/2"
Rounding Over Bit	34-124	1-1/4"	1/2"	5/8"	3/8"	1/2"	2-5/8"
Rounding Over Bit	34-126	1-1/2"	1/2"	3/4"	1/2"	1/2"	2-3/4"
Rounding Over Bit	34-128	2"	1/2"	1"	3/4"	1/2"	2-7/8"









Six Piece Slot Cutter Sets

Application: Produce precision slots for T molding, spline joints, and several other applications

- Includes four three-wing slot cutters (1/16", 1/8", 5/32", and 1/4" kerf), a ball bearing (62-108) to provide a 9/16" depth of cut, an arbor and an attractive wooden storage box.
- Slotting cutters produce precision slots for T-molding, spline joints, and many other applications.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- 56-109 can be used for biscuit joining.



Slot Cutter's Profile

Bit Type	Item Number	Overall Dia.	Bore Dia.	Carbide Height	Shank Dia.
Item Number 89-300					
Three Wing Slot Cutter	56-100	2"	5/16"	1/16"	-
Three Wing Slot Cutter	56-108	2"	5/16"	1/8"	_
Three Wing Slot Cutter	56-109	2"	5/16"	5/32"	_
Three Wing Slot Cutter	56-112	2"	5/16"	1/4"	_
Ball Bearing	62-108	22mm (7/8")	8mm (5/16")	-	-
1/4" Arbor	60-100	-	_	_	1/4"
Item Number 89-350					
Three Wing Slot Cutter	56-100	2"	5/16"	1/16"	_
Three Wing Slot Cutter	56-108	2"	5/16"	1/8"	_
Three Wing Slot Cutter	56-109	2"	5/16"	5/32"	_
Three Wing Slot Cutter	56-112	2"	5/16"	1/4"	_
Ball Bearing	62-108	22mm(7/8")	8mm(5/16")	_	_
1/2" Arbor	60-102		_	_	1/2"







Six Piece Straight Bit Set

Application: Allows you to make grooves, dadoes, and rabbets

- Sizes range from 1/4" diameter to 1" diameter in 1/8" increments.
- All bits have 1/2" shanks.
- Includes attractive wooden storage box.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.



Straight Bit Profile

Bit Type	ltem Number	Overall Dia.	Carbide Height	Shank Dia.	Overall Length
Item Number 91-102					
Double Flute Straight Bit	12-100	1/4"	3/4"	1/2"	2-3/8"
Double Flute Straight Bit	12-106	5/16"	1"	1/2"	2-3/4"
Double Flute Straight Bit	12-116	1/2"	1"	1/2"	2-5/8"
Double Flute Straight Bit	12-136	5/8"	1"	1/2"	2-1/2"
Double Flute Straight Bit	12-152	3/4"	1"	1/2"	2-1/2"
Double Flute Straight Bit	12-172	1"	1-1/4"	1/2"	3"



Three Piece Chamfer Bit Set

Application: Chamfer bits maintain crisp, geometric lines while forming a uniform bevel on the edge of the work piece

- Includes 22-1/2°, 30° and 45° chamfer bits and an attractive wooden storage box.
- All bits have 1/2" shanks.
- Adjust chamfer size by changing the height of the bit.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.







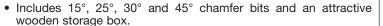


Bit Type	Item Number	Overall Dia.	Bearing Dia.	Carbide Height	Angle	Shank Dia.	Overall Length
Item Number 89-250							
Chamfer Bit	40-101	1-1/4"	1/2"	7/8"	22-1/2°	1/2"	2-5/8"
Chamfer Bit	40-114	1-3/4"	1/2"	1/2"	45°	1/2"	2-9/16"
Chamfer Bit	40-206	1-11/32"	1/2"	3/4"	30°	1/2"	2-3/4"

89-200

Four Piece Chamfer Bit Set

Application: Create a uniform bevel on the edge of a work piece to add character while keeping crisp, geometric lines



- All bits have 1/4" shanks.
- Adjust chamfer size by changing the height of the bit.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.





Bit Type	Item Number	Overall Dia.	Bearing Dia.	Carbide Height	Angle	Shank Dia.	Overall Length
Item Number 89-200							
Chamfer Bit	40-100	23/32"	1/2"	1/2"	15°	1/4"	2-3/16"
Chamfer Bit	40-102	15/16"	1/2"	1/2"	25°	1/4"	2-3/16"
Chamfer Bit	40-106	1-3/4"	1/2"	5/8"	45°	1/4"	2-3/16"
Chamfer Bit	40-202	1-11/32"	1/2"	3/4"	30°	1/4"	2-1/4"





Four Piece Introductory Bit Set

Application: Fundamental bit set for novice woodworkers

- Freud's new Four Piece Introductory Set provides an economical yet very useful introduction to the wide world of possibilities offered by your 1/2" collet router.
- Includes a variety of bits that allow you to experience several router functions.
- All bits have 1/2" shanks.
- Set comes in Freud's unique shadow box case that can hang on the wall or mount on the bench to keep bits handy and safe.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.











Rabbeting Bit Profile

Rounding Over & Beading Profile

Mortising Bit

	Bit Type	Item Number		Bearing Dia.	Carbide Height	Large Radius	Shank Dia.	Overall Length
NEW	►Item Number A90200							
	Rabbeting Bit	A32100	1-1/4"	1/2"	1/2"	_	1/4"	2"
	Rounding Over/Beading Bit	A34110	1"	1/2"	1/2"	1/4"	1/4"	2-3/16"
	Mortising Bit	A50102	1/2"	1/2"	1-1/4"	-	1/4"	2-5/8"

^{*} Use included bearing to convert the Rounding Over Bit into a Beading Bit.

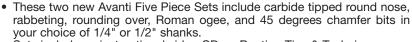
With The CD Learn How To:

- Create Sliding Dovetails
- **Cut Dadoes**
- Joint Straight Edges
- Create Decorative Edge Treatments Freehand
- Chamfer Perfectly Accurate Beveled Angles
- And Much More...

Five Piece Introductory Bit Set

Application: Fundamental bit set for novice woodworkers





- Sets include an instructional video CD on Routing Tips & Techniques.
- · All sets come in Freud's unique shadow box case that can hang on the wall or mount on the bench to keep bits handy and safe.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.









A91210

A90200









Rabbeting Rounding Over Profile Profile

Roman Ogee Profile

Chamfer Bit Profile

With The CD Learn How To:

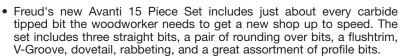
- · Create Sliding Dovetails
- Cut Dadoes
- Joint Straight Edges Create Decorative Edge Treatments Freehand
- **Chamfer Perfectly** Accurate Beveled Angles
- And Much More...

	Bit Type	Item Number	Overall Dia.	Bearing Dia.	Carbide Height	Angle	Large Radius	Shank Dia.	Overall Length
IEW	ltem Number A90210 (5 pc.1/4"	Shank Se	et)						
	Round Nose Bit	18-108	3/8"	_	3/8"	_	1/4"	1/4"	1-13/16"
	Rabbeting Bit	32-100	1-1/4"	1/2"	1/2"	-	-	1/4"	2"
	Rounding Over Bit	34-110	1"	1/2"	1/2"	_	1/4"	1/4"	2-3/16"
	Roman Ogee Bit	38-100	1-1/16"	3/8"	1/2"	_	5/32"	1/4"	2-3/16"
	Chamfer Bit	40-104	1-11/32"	1/2"	1/2"	45°	-	1/4"	2-3/16"
IEW	ltem Number A91210 (5 pc.1/2"	Shank Se	et)						
	Round Nose Bit	18-122	3/4"	-	1-1/4"	_	3/8"	1/2"	2-13/16"
	Rabbeting Bit	32-102	1-1/4"	1/2"	1/2"	_	_	1/2"	2-1/4"
	Rounding Over Bit	34-126	1-1/2"	1/2"	3/4"	_	1/2"	1/2"	2-3/4"
	Roman Ogee Bit	38-106	1-3/8"	3/8"	23/32"	_	1/4"	1/2"	2-9/16"
	Chamfer Bit	40-114	1-3/4"	1/2"	5/8"	45°	_	1/2"	2-9/16"



Fifteen Piece Introductory Bit Set

Application: Perfect starter set for the serious woodworker





- Set comes in Freud's unique shadow box case, this set hangs on the wall or mounts on the bench to keep bits handy and safe.
- All bits have 1/2" shanks.
- Cuts all composition materials, plywoods, hardwoods, and softwoods.
- Use on hand-held and table-mounted portable routers.



Included

With The CD Learn How To: Create Sliding Dovetails Cut Dadoes Joint Straight Edges

Create Decorative Edge

Treatments Freehand Chamfer Perfectly Accurate Beveled Angles And Much More...





Traditional Beading Profile



Chamfer Profile Dovetail Profile



Rabbeting Profile



Cove Profile







Roman Ogee Profile

Flush Trim Profile







Straight Trim Profile



"V"-Grooving Profile

Bit Type	Item Number	Overall Dia.	Bearing Dia.	Carbide Height	Number of Flutes	Angle	Large Radius	Shank Dia.	Overall Length
Item Number A91220									
Traditional Beading Bit	A80122	1"	1/2"	9/16"	-	_	1/8"	1/2"	2-7/16"
Chamfer Bit	A40114	1-3/4"	1/2"	5/8"	_	45°	_	1/2"	2-9/16"
Dovetail Bit	A22112	1/2"	_	1/2"	_	14°	_	1/2"	2-1/4"
Rabbeting Bit	A32102	1-1/4"	1/2"	1/2"	_	_	_	1/2"	2-1/4"
Cove Bit	A30114	1-1/2"	1/2"	5/8"	_	-	1/2"	1/2"	2-1/2"
Rounding Over / Beading Bit*	A34120	1"	1/2"	1/2"	-	_	1/4"	1/2"	2-1/2"
Rounding Over / Beading Bit*	A34126	1-1/2"	1/2"	3/4"	_	-	1/2"	1/2"	2-3/4"
Roman Ogee Bit	A38106	1-3/8"	3/8"	23/32"	-	_	1/4"	1/2"	2-9/16"
Flush Trim Bit	A42110	1/2"	1/2"	1"	2	_	_	1/2"	3-1/4"
Straight Trim Bit	A12100	1/4"	_	3/4"	2	_	_	1/2"	2-3/8"
Straight Trim Bit	A12128	1/2"	_	2"	2	_	_	1/2"	4-1/8"
Straight Trim Bit	A12156	3/4"	_	1-1/2"	2	_	_	1/2"	3"
Round Nose Bit	A18116	1/2"	_	1-1/8"	-	_	1/4"	1/2"	2-13/16"
"V" Grooving Bit	A20108	1/2"	_	1/2"	_	90°	_	1/2"	2-1/4"
3/8" Bearing	A62102	-	3/8"	-	-	_	_	_	_

^{*} Use included bearing to convert the Rounding Over Bit into a Beading Bit.

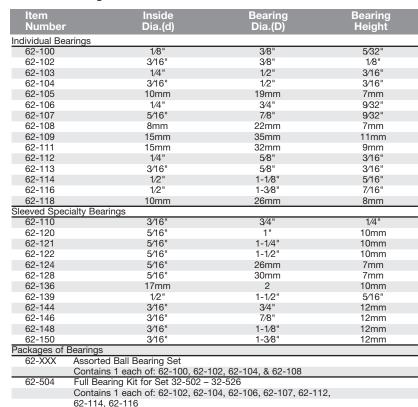




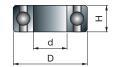


Application: Repairing and altering the profile of Freud router bits. Will fit most brands of router bits

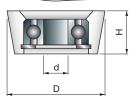
- Freud router bits feature superior quality ball bearings.
- Lubricated with a high temperature lubricant to withstand the stresses of turning at 22,000 RPMs.
- Shielded to keep out the unwanted wood dust and chips that greatly reduce bearing life.











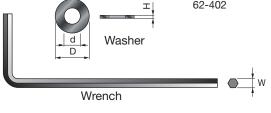
Repair Parts

Application: Repairing or rebuilding router bits

• Freud offers superior quality replacement parts for all Freud bits.

 These parts can be used to replace lost fasteners or to return a bit to its original condition.

Item Number	Description	Outside Dia.(D)	Height (H)	Wrench Size	Inside Dia.(d)
62-303	Cap Screw	3mm	6mm	2.5mm	_
62-304	Long Cap Screw	3mm	12mm	2.5mm	_
62-305	Hex Nut 5/	16-24UNF	17/64"	1/2"	-
62-306	Medium Cap Screw	3mm	8mm	2.5mm	_
62-307	Washer	_	-	_	3mm
62-309	Washer	-	-	_	5/16"
62-311	Washer	_	_	_	3/8"
62-313	Washer	-	-	_	1/2"
62-321	Flange Bushing	1/4"	3/16"	_	3/16"
62-323	Flange Bushing	5/16"	1/8"	_	3/16"
62-325	Flange Bushing	1/2"	1/8"	_	3/16"
62-331	Lock Collar	15/32"	5/32"	_	1/4"
62-402	Wrench	_	_	2.5mm	_



I

Hex Nut

Flange Bushing

Lock Collar

d D

d

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freud

Ball Bearings Reference Guide

Item #	Bearing#						
16-500	62-103	36-122	62-102	42-109	62-104	85-027	62-106
16-502	62-112	36-124	62-102	42-110	62-104	85-029	62-112
16-504	62-105	36-126	62-102	42-114	62-104	85-031	62-104
16-510 16-522	62-105 62-142	36-127 36-128	62-102 62-102	42-116 42-118	62-104 62-106	99-002 99-003	62-104 62-102
16-523	62-142	36-130	62-102	43-106	62-106	99-005	62-102
16-524	62-142	36-132	62-102	43-108	62-106	99-006	62-104
18-508	62-103	36-134	62-102	43-128	62-106	99-008	62-104
18-510	62-112	36-136	62-102	43-204	62-106	99-009	62-102
18-512	62-106	36-138	62-102	43-208	62-106	99-010	62-104
19-506 19-578	62-106 62-114	36-140 38-100	62-102 62-102	43-212 43-216	62-106 62-106	99-011 99-012	62-104 62-104
20-574	62-114	38-102	62-102	44-100	62-104	99-013	62-104
20-502	62-103	38-104	62-102	44-102	62-104	99-014	62-104
22-505	62-112	38-106	62-102	44-104	62-104	99-015	62-104
22-506	62-105	38-152	62-104	44-108	62-104	99-016	62-104
22-507 30-094	62-105 62-102	38-154 38-202	62-104 62-102	45-502 45-522	62-132 62-132	99-020 99-021	62-104 62-104
30-098	62-102	38-204	62-102	48-102	62-104	99-022	64-104
30-100	62-102	38-250	62-102	48-112	62-104	99-023	62-108
30-102	62-102	38-252	62-102	50-101	62-103	99-024	62-108
30-103	62-104	38-260	62-102	50-102	62-103	99-025	62-108
30-104 30-106	62-104 62-104	38-262 38-270	62-102 62-104	50-103 50-104	62-112 62-112	99-027 99-028	62-104 62-114
30-100	62-104	38-280	62-104	50-104	62-112	99-029	62-114
30-108	62-104	38-282	62-104	50-112	62-118	99-030	62-108
30-109	62-104	38-302	62-102	50-122	62-114	99-035	62-108
30-110	62-104	38-304	62-102	50-126	62-111	99-039	62-109
30-111	62-104	38-312 38-314	62-102	50-130	62-139 62-136	99-041 99-041	62-108
30-112 30-114	62-104 62-104	38-352	62-102 62-104	50-138 60-120	62-108	99-041	62-124 62-128
30-202	62-104	38-362	62-104	60-122	62-108	99-044	62-104
32-096	62-104	38-402	62-104	63-100	62-108	99-051	62-108
32-098	62-104	38-452	62-102	63-104	62-108	99-060	62-104
32-100	62-104	38-502	62-104	63-108	62-108	99-061	62-104
32-101 32-102	62-102 62-104	38-504 38-522	62-104 62-102	63-109 63-110	62-108 62-108	99-062 99-066	62-104 62-104
32-102	62-102	38-524	62-104	63-111	62-108	99-250	62-104
32-110	62-102	38-602	62-102	63-112	62-108	99-251	62-108
32-502	62-504	38-612	62-104	63-150	62-108	99-253	62-108
32-504	62-504	38-614	62-104	63-154	62-108	99-260	62-108
32-522 32-524	62-504 62-504	38-622 38-632	62-102 62-102	63-156 63-158	62-108 62-108	99-261 99-263	62-108 62-108
32-526	62-505	39-502	62-105	63-159	62-108	99-288	62-121
33-106	62-104	39-504	62-130	63-160	62-108	99-281	62-121
33-116	62-104	39-506	62-132	63-161	62-108	99-283	62-121
34-100	62-104	39-512	62-105	63-162	62-108	99-442 99-444	62-112
34-104 34-106	62-104 62-104	39-514 39-516	62-130 62-132	80-102 80-104	62-104 62-104	99-444	62-112 62-104
34-108	62-104	39-522	62-105	80-106	62-104	99-450	62-104
34-110	62-104	39-524	62-130	80-108	62-104	99-452	62-104
34-112	62-104	39-526	62-132	80-122	62-104	99-510	62-104
34-114 34-116	62-104 62-104	39-532	62-105	80-124 80-126	62-104 62-104	99-511	62-104 62-104
34-116	62-104	39-534 39-536	62-130 62-132	80-128	62-104	99-512 99-513	62-104
34-118	62-104	39-578	62-140	80-130	62-104	99-515	62-104
34-119	62-104	39-580	62-139	80-552	62-112	99-516	62-104
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Shaper Cutters

Freud's Shaper **Cutters and Performance** System® Cutters are revolutionary. **Recognized for** their versatility, quality, and innovation, Freud offers the flexibility to choose the cutter that fits every need. The conventional fixed wing shaper cutters and **Performance Systems® Cutters with** re-sharpenable inserts both feature Freud made TiCo™ Hi-Density Carbide, Anti-Kickback Design, Computer Balancing, **Shear Angle, and** Multi-Axis grinding.

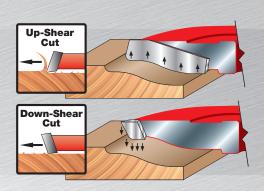


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freud

Freud—Shaper Cutters Features And Benefits



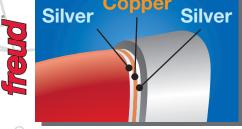
Superior Freud Made TiCo™ Carbide Provides Longer Cutting Life

Freud's proprietary carbide is comprised of micro grains, smaller in size than other carbides, and consists of over twenty unique carbide formulations designed for each shaper cutter application. In addition, titanium is added to the carbide, making it impervious to chemical attack. This slows down the wearing process so the Freud cutter will maintain a sharp edge.



Standard Off-The-Shelf Carbide

Most manufacturers create shaper cutters with standard off-the-shelf carbide, which is not specifically designed for wood cutting applications. These carbides will not maintain the proper tooth geometry or sharp edge. After a few cuts these standard carbides might not show imperfections; however, without the proper carbide formulation, material finish and cutting life will suffer.



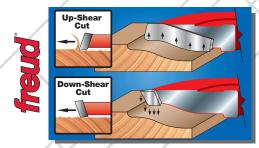
Advanced Tri-Metal Brazing

Freud's innovative Tri-Metal Brazing process bonds the carbide tips to the cutter body. This method consists of copper alloy sandwiched between layers of silver alloy. The copper allows for flexibility and impact resistance to protect the carbide tips and steel shoulders when cutting knots, laminates, hardwoods, etc.



Standard Brazing

Other manufacturers use silver alloy alone, which does not allow for expansion during operation. This causes the bond to develop stresses, leading to cracks in the carbide and failed joints.



Freud's 2 + 2 Raised Panel Cutter

Freud offers a four-wing raised panel cutter that will revolutionize the way raised panel doors are made. Freud's exclusive 2 + 2 Raised Panel Shaper Cutters produce glass-smooth cuts, even on the cross grain. This ingenious configuration of both positive and negative shear angles eliminates the fuzz on the top edge of the profile and reduces the need for sanding.



Others Raised Panel Cutter Designs

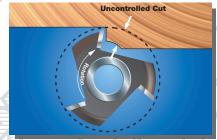
No other raised panel cutters have the Freud 2 + 2 cutting system. Without the small down-shear cutter, other panel cutters leave fuzz at the top edge of the profile creating additional rework which alters the original profile.



Kickback-Reducing Design

Kickbacks are one of the most dangerous hazards in woodworking. This happens so quickly that it can be impossible to react before injury occurs. Freud's kickbackreducing shoulder design restricts the tooth bite to 1.1 mm, reducing the effects of kickback from overfeeding. This design helps ensure a safer working environment.

Standard



Standard Shaper Cutter Design

Standard shaper cutter designs do not include a kickback reducing shoulder. The cutters do not have extra support behind the cutting flute. This limitation allows the cutter to take large bites out of the material which can lead to uncontrolled, rough cuts. particularly when operating at lower speeds.



Computer Balancing Prevents Chattering And Vibration

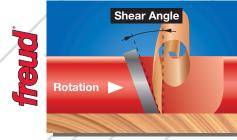
A shaper cutter that is even slightly out of balance will vibrate and chatter while cutting, and it can be extremely dangerous if it is far out of balance. All Freud shaper cutters are computer balanced to ensure vibration-free operation.





Unbalanced Shaper Cutters Chattering And Vibration

Shaper cutters that are not spin balanced often have a side that is heavier than the other. At high speeds, the cutters will begin to vibrate causing noise or chatter. An unbalanced shaper cutter can cause damage to the shaper.



Superior Shear Angle Design

The shear angle is the angle that the cutting edge makes with the spindle of the shaper. Freud carbide tips are angled to slice through the wood fibers similar in principle to using a hand plane at an angle to the direction of the motion. This slicing action becomes even more important when cutting across the grain. Freud's high shear angle cutters leave a crossgrain cut that requires virtually no sanding.





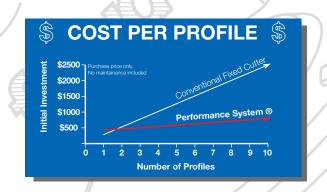
Standard Shaper Cutters Have Little Or No Shear Angle

Cutters without shear or with too little shear chop the wood and are more likely to produce tear-out and chatter marks. In addition, not having the proper shear angle causes premature wearing of the carbide and puts more strain on the shaper.

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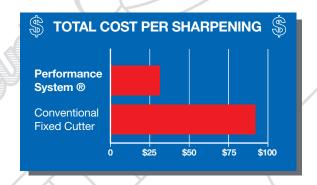
Cost Per Profile

Freud's Performance System® cutters are designed for maximum performance, flexibility and savings. When a new profile cutter is needed, the investment cost of the Performance System® drops well below that of conventional fixed wing cutters. With the Performance System®, all that is required is a set of profile knives. With conventional cutters a complete new cutter must be purchased. The graph to the right illustrates the savings of using this system.



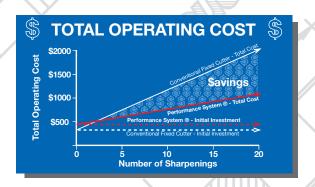
Operating Cost Per Sharpening

Freud's Performance System® cutters are less expensive to operate. With the patented sharpening system, all that is required is face grinding the insert knives on a surface grinder. This method is both fast and inexpensive. When the knives can no longer be sharpened, they are easily replaced. conventional fixed wing cutters, a completely new cutter must be purchased. The chart to the right shows the Total Operating Cost Per Sharpening.



Total Operating Cost

When examining the overall operating cost of conventional fixed wing cutters vs. the savings with Freud's Performance System®, the amount saved grows rapidly. The chart to the right shows the true operating cost through twenty sharpenings. Freud's Performance System® makes up the difference in the initial investment, well before the fifth sharpening. The longer it is used, the more the Performance System® investment pays off.



NOTE: To determine the operating cost the following parameters were used: The average cost to sharpen a conventional fixed cutter rail & stile set is \$29.00, and the average cost to sharpen a pair of knives is \$12.00. After five sharpenings the knives and fixed cutters were expended and replaced. The Performance System® will last longer between sharpenings due to the system's ability to use a harder micrograin carbide. The cost for cutterheads, knives and conventional cutters is at list price.

RP1000 & RP2000 Panel Raising Systems



Freud now has a revolutionary system for making cabinet doors. This system combines the flexibility of standard insert tooling with the performance of resharpenable TiCo™ Hi-Density Carbide knives. This gives cabinet manufacturers the ability to offer over 10 different styles of raised panels for cabinet doors at a fraction of the cost of fixed knife cutters. Plus, these cutters have a specially designed raised panel knife that will leave cross grain cuts as smooth and splinter-free as cuts with the grain. The head is manufactured out of a high grade aircraft aluminum, so weight is kept to a minimum while strength is maintained. The Anti-Kickback Design of the head reduces the likelihood of kickbacks.

The basic system, RP1000, consists of the cutter head only. Profile knives can be purchased separately. The RP2000, contains the cutter head, straight profile back cutter RP-OPS, and 5 sets of profile knives for 5/8" stock and 3/4" stock when using the back cutter. Both sets are packaged in a sturdy case for convenient storage.

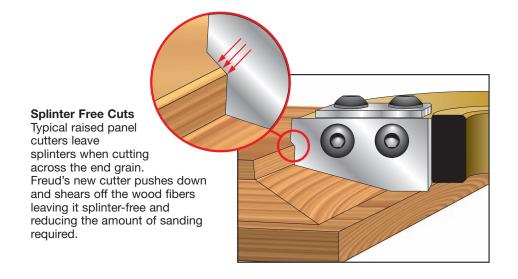
This raised panel cutter system can be used either with the Performance System® Rail and Stile cutter or with standard fixed wing rail and stile cutters.

Raised Panel Head: RP1000

Item	Overall	Bore	Rub Collar
Number	Dia.	Diameter	Number
RP1000	5-1/2"	1-1/4"	RC10#

Set: RP2000

Heads Included	Backcutter Included	Knives Included	Bore Diameter
RP1000	RP-OPS	RP-A	1-1/4"
		RP-B	
		RP-C	
		RP-D	
		RP-E	

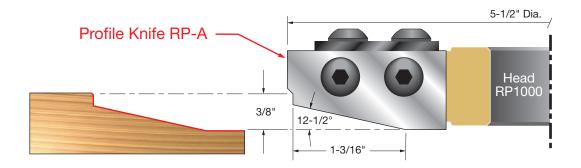




Profile Knife RP-A

This knife is designed for raising 5/8" thick panels with 1/4" tongues. Can be used for raising 3/4" panels when using optional back cutters RP-OPS or RP-OPB. The specially designed knife removes all splinters on cross grain cuts.

Uses: Knife RP-A and Head RP1000

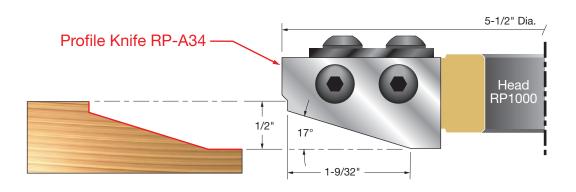




Profile Knife RP-A34

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

Uses: Knife RP-A34 and Head RP1000

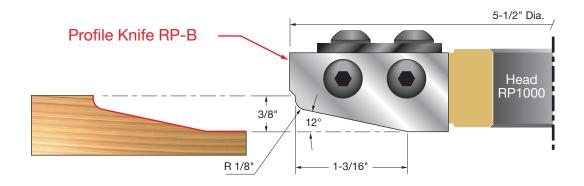


Profile Knife RP-B



This knife is designed for raising 5/8" thick panels with 1/4" tongues. Can be used for raising 3/4" panels when using optional back cutters RP-OPS or RP-OPB. The specially designed knife removes all splinters on cross grain cuts.

Uses: Knife RP-B and Head RP1000

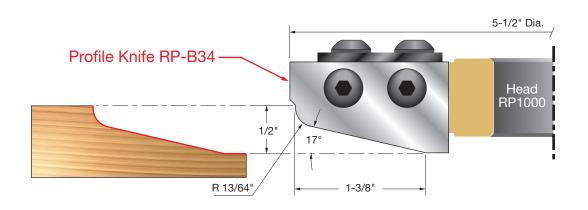


Profile Knife RP-B34



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

Uses: Knife RP-B34 and Head RP1000



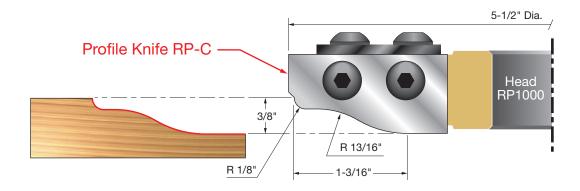




Profile Knife RP-C

This knife is designed for raising 5/8" thick panels with 1/4" tongues. Can be used for raising 3/4" panels when using optional back cutters RP-OPS or RP-OPB. The specially designed knife removes all splinters on cross grain cuts.

Uses: Knife RP-C and Head RP1000

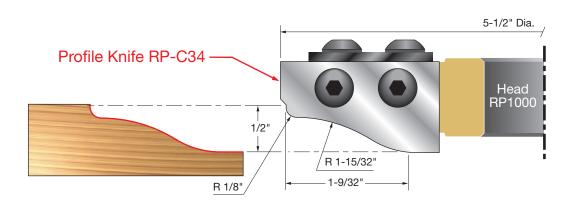




Profile Knife RP-C34

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

Uses: Knife RP-C34 and Head RP1000

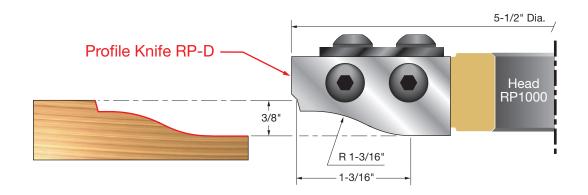


Profile Knife RP-D



This knife is designed for raising 5/8" thick panels with 1/4" tongues. Can be used for raising 3/4" panels when using optional back cutters RP-OPS or RP-OPB. The specially designed knife removes all splinters on cross grain cuts.

Uses: Knife RP-D and Head RP1000

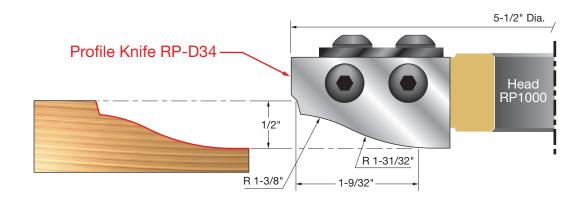


Profile Knife RP-D34



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

Uses: Knife RP-D34 and Head RP1000

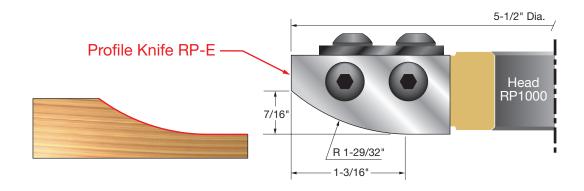




Profile Knife RP-E

This knife is designed for raising 5/8" thick panels with 1/4" tongues. Can be used for raising 3/4" panels when using optional back cutters RP-OPS or RP-OPB. The specially designed knife removes all splinters on cross grain cuts.

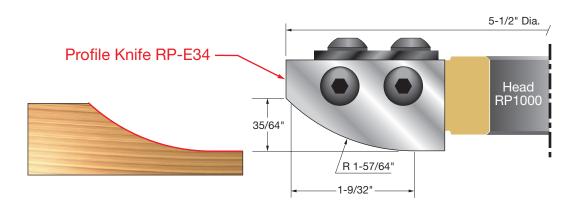
Uses: Knife RP-E and Head RP1000



Profile Knife RP-E34

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

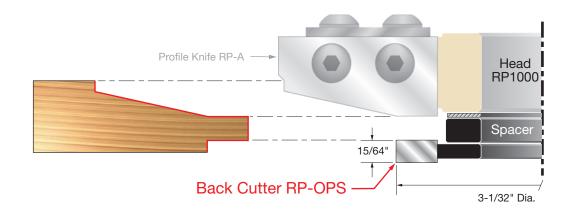
Uses: Knife RP-E34 and Head RP1000



RP-OPS Back-Cutter For Performance System® Raised Panel Cutters



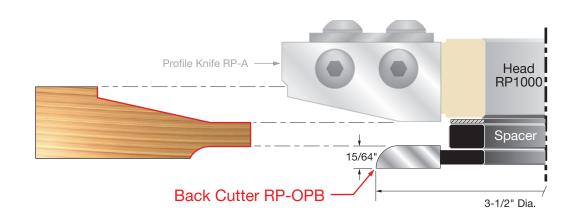
This back-cutter is designed to be used with knives RP-A, RP-B, RP-C, RP-D, or RP-E on the RP1000 head. This allows the use of 3/4" to 13/16" thick panels while maintaining a 1/4" tongue.



RP-OPB Back-Cutter For Performance System® Raised Panel Cutters



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





RS1000 & RS2000 Rail & Stile Door Systems



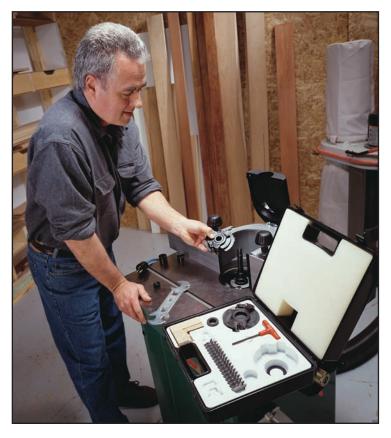
Freud's revolutionary system for making cabinet doors combines the flexibility of standard insert tooling with the performance of resharpenable TiCo™ Hi-Density Carbide knives. This gives cabinetmakers the ability to offer over 18 profiles of rail and stiles for cabinet doors at a fraction of the cost of fixed knife cutters.

These cutters are packed with special features like: eased panel slot edges to prevent splintering and improve finishing, zero down time to switch from the moulding cut to the cope cut with matched reverse sets, and profiles that always match even after resharpening.

The RS1000 set contains both cutter heads, groovers, and knives RS-K for cutter head RS-R. Profile knives can be purchased separately.

The RS2000 contains everything in the RS1000, plus nine different pairs of profile knives.

Both sets come with a sample of a rail and stile and complete manual for easy setup. Additional heads can be purchased separately.



(Continued) RS1000 & RS2000 Rail & Stile Door Systems

Set RS1000

Cutter Head	Overall Diameter	Bore Diameter	Rub Collar Number	Groovers Included	Knives Included
RS-S	4-7/16"	1-1/4"	RSC-0#	-	RS-L*
RS-R	4-7/16"	1-1/4"	RSC-0#	RS-K**	-

"#" Determines bore size. See Bushing & Rub Collars for bore selection
*Glass Door and Back Tenon knife for Head RS-S **Groover Knives for Head RS-S

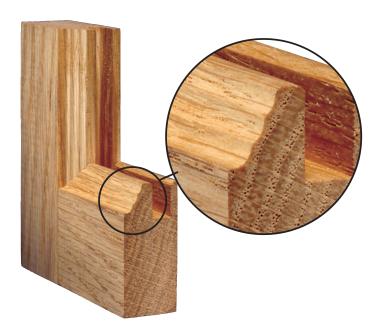
Set RS2000

Item Number	Overall Dia.(D)	Carbide Height(h)	Large Radius(R)	Shank Dia.(A)	Overall Length(H)
RS-S	4-7/16"	1-1/4"	RSC-0#	-	RS-L*
RS-R	4-7/16"	1-1/4"	RSC-0#	RS-K**	RS-A
					RS-B
					RS-C
					RS-D
					RS-E
					RS-F
					RS-G
					RS-H
					RS-I

"#" Determines bore size. See Bushing & Rub Collars for bore selection *Glass Door and Back Tenon knife for Head RS-S **Groover Knives for Head RS-S



Back View of Tenon Joint This system makes perfect tenon joints, even after it has been sharpened.



The End of Splintering

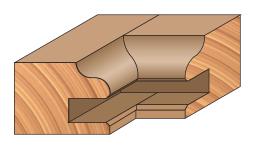
Freud's specially designed cutter eliminates the possibility of splintering with oak and other popular woods, by easing edges on the inside of the panel groove. This feature aids finishing by preventing finish build-up at the panel joint which is common with other rail and stile cutters.

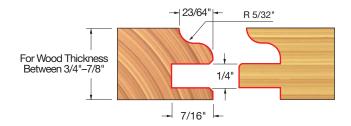


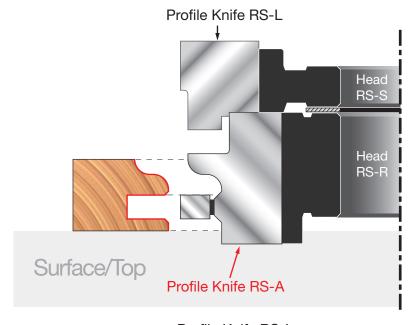
Profile Knife RS-A Raised Panel Door Set-Up

Use this set-up when constructing raised panel doors. Eased over edges on inside of panel groove provide less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

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

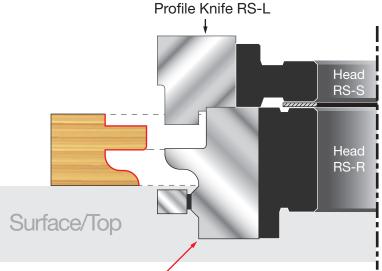




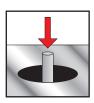


Spindle in Starting Position for Profile Cut





Spindle Lowered for Cope Cut



Profile Knife RS-A

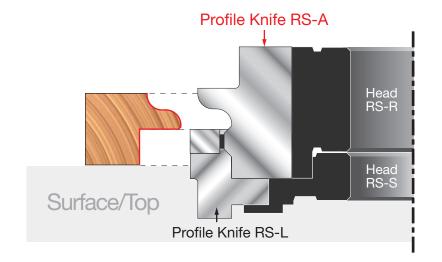
Profile Knife RS-A Glass Panel Door Set-Up



Use this set-up when a rabbeted groove is required to allow the insertion and removal of a glass panel. Use small molding to hold glass in place. No shimming should be needed.

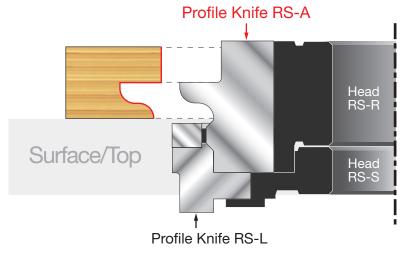
Uses: Knife RS-A, Knife RS-L, Head RS-R, and Head RS-S











Spindle Lowered for Cope Cut



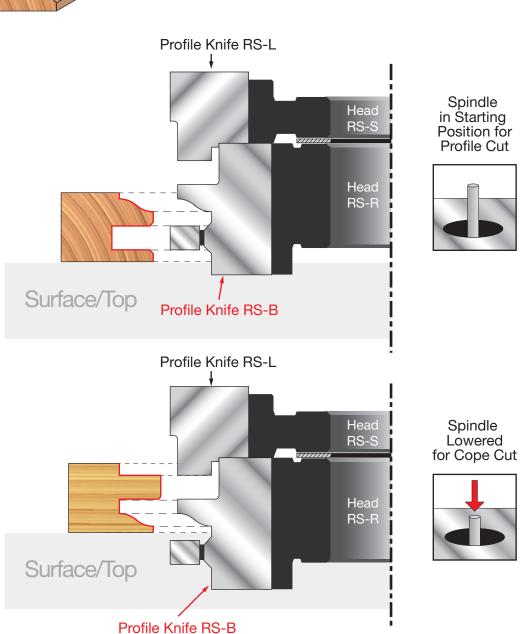


Profile Knife RS-B Raised Panel Door Set-Up

Use this set-up when constructing raised panel doors. Eased over edges on inside of panel groove provide less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

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





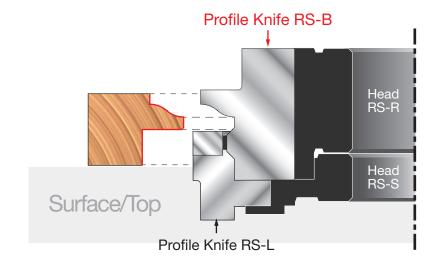
Profile Knife RS-B Glass Panel Door Set-Up



Use this set-up when a rabbeted groove is required to allow the insertion and removal of a glass panel. Use small molding to hold glass in place. No shimming should be needed.

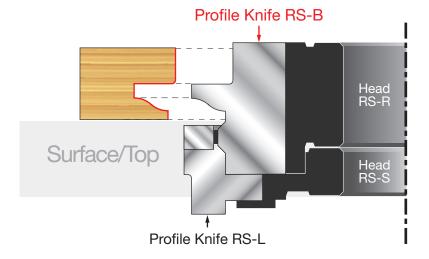
Uses: Knife RS-B, Knife RS-L, Head RS-R, and Head RS-S











Spindle Lowered for Cope Cut



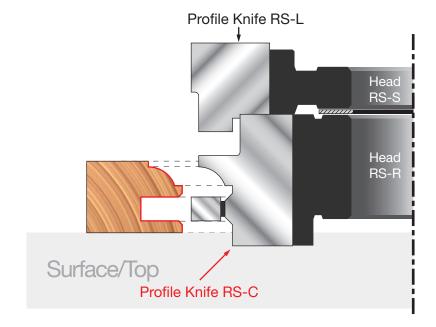


Profile Knife RS-C Raised Panel Door Set-Up

Use this set-up when constructing raised panel doors. Eased over edges on inside of panel groove provide less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

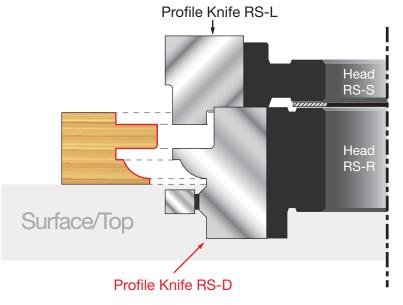
Uses: Knife RS-C, Knife RS-D, Knife RS-L, Head RS-R, and Head RS-S



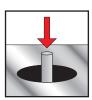


Spindle in Starting Position for Profile Cut





Spindle Lowered for Cope Cut

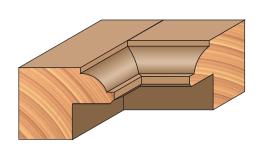


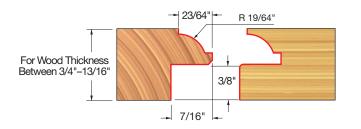
Profile Knife RS-C Glass Panel Door Set-Up

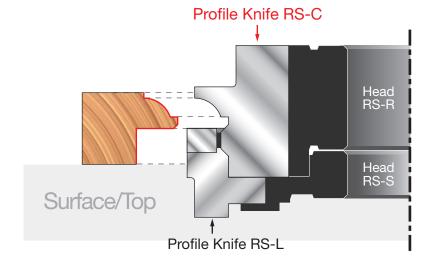


Use this set-up when a rabbeted groove is required to allow the insertion and removal of a glass panel. Use small molding to hold glass in place. No shimming should be needed.

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

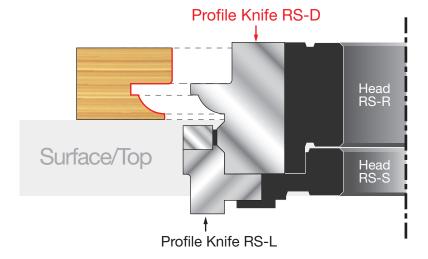




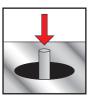








Spindle Lowered for Cope Cut



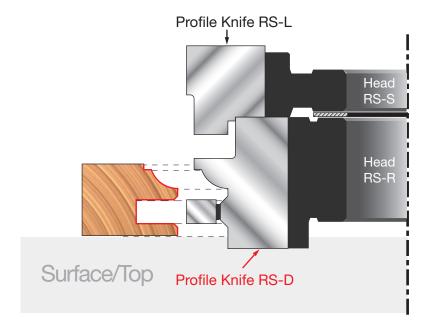


Profile Knife RS-D Raised Panel Door Set-Up

Use this set-up when constructing raised panel doors. Eased over edges on inside of panel groove provide less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

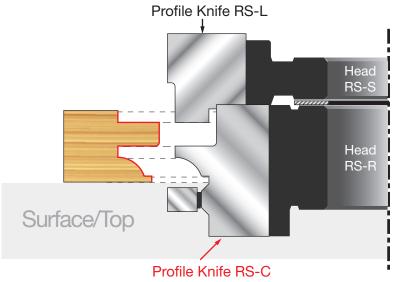
Uses: Knife RS-D, Knife RS-C, Knife RS-L, Head RS-R, and Head RS-S





Spindle in Starting Position for Profile Cut





Spindle Lowered for Cope Cut

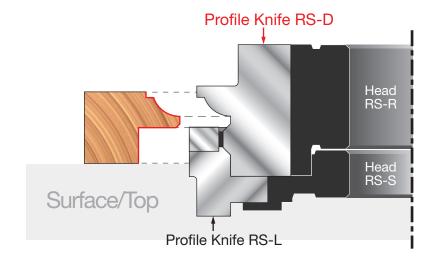


Profile Knife RS-D Glass Panel Door Set-Up

Use this set-up when a rabbeted groove is required to allow the insertion and removal of a glass panel. Use small molding to hold glass in place. No shimming should be needed.

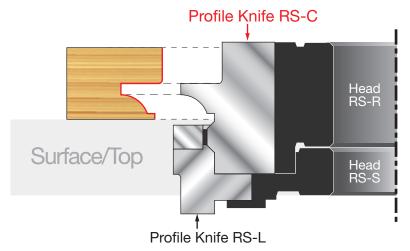
Uses: Knife RS-D, Knife RS-C, Knife RS-L, Head RS-R, and Head RS-S



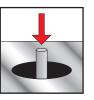


Spindle in Starting Position for Profile Cut





Spindle Lowered for Cope Cut



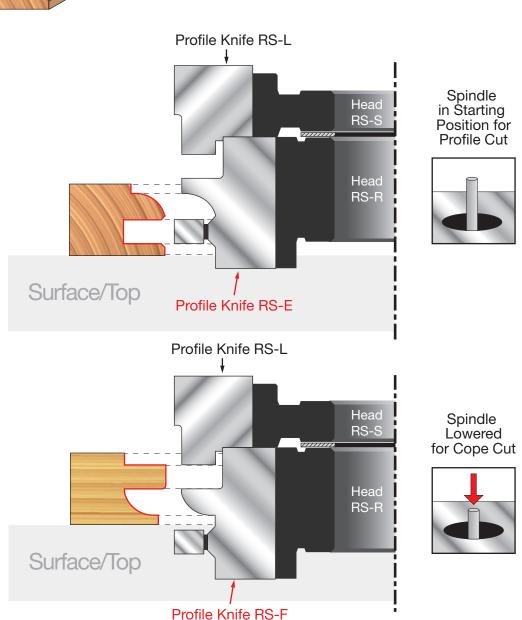


Profile Knife RS-E Raised Panel Door Set-Up

Use this set-up when constructing raised panel doors. Eased over edges on inside of panel groove provide less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

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



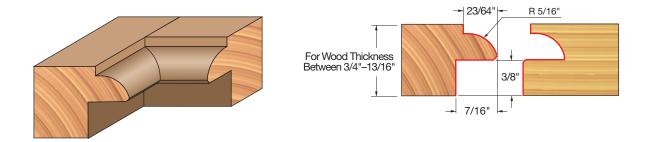


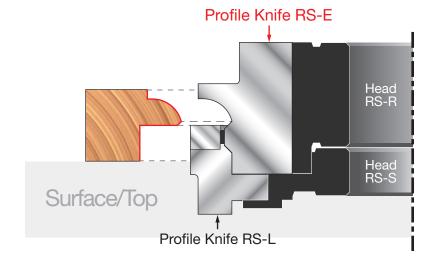
Profile Knife RS-E Glass Panel Door Set-Up



Use this set-up when a rabbeted groove is required to allow the insertion and removal of a glass panel. Use small molding to hold glass in place. No shimming should be needed.

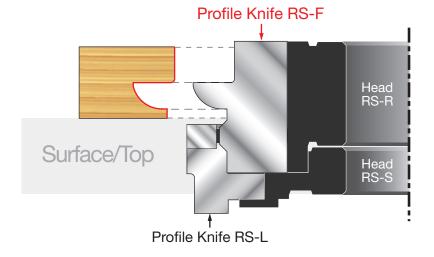
Uses: Knife RS-E, Knife RS-F, Knife RS-L, Head RS-R, and Head RS-S



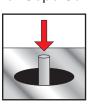








Spindle Lowered for Cope Cut



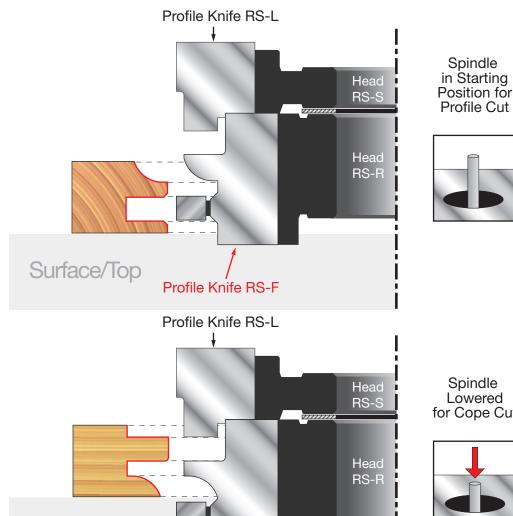


Profile Knife RS-F Raised Panel Door Set-Up

Use this set-up when constructing raised panel doors. Eased over edges on inside of panel groove provide less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

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





Spindle Lowered for Cope Cut



Profile Knife RS-E

Surface/Top

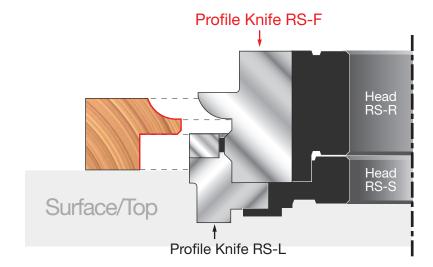
Profile Knife RS-F Glass Panel Door Set-Up



Use this set-up when a rabbeted groove is required to allow the insertion and removal of a glass panel. Use small molding to hold glass in place. No shimming should be needed.

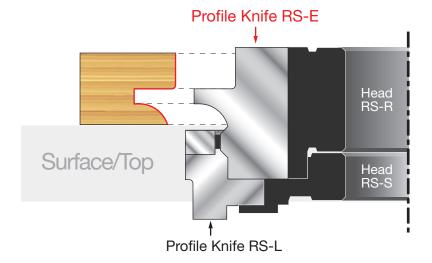
Uses: Knife RS-F, Knife RS-E, Knife RS-L, Head RS-R, and Head RS-S



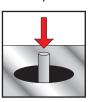


Spindle in Starting Position for Profile Cut





Spindle Lowered for Cope Cut

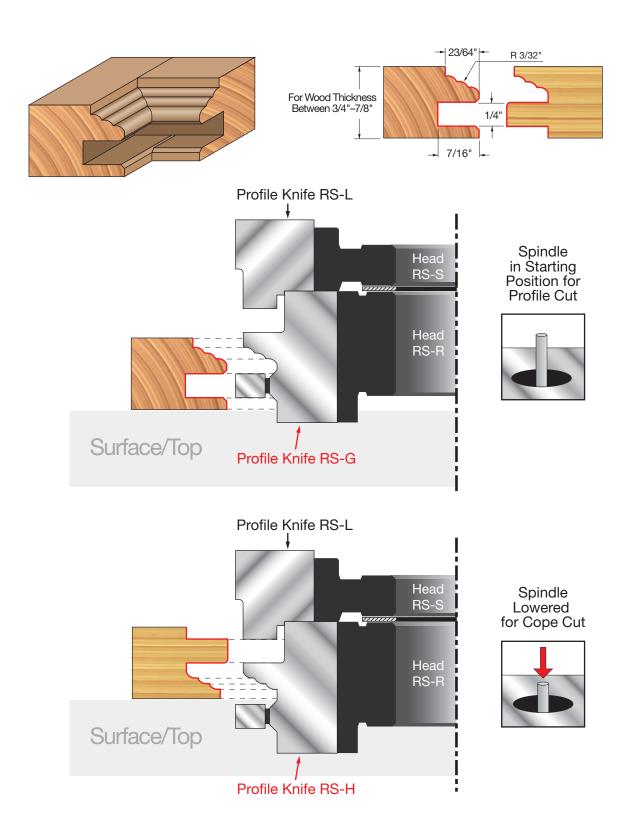




Profile Knife RS-G Raised Panel Door Set-Up

Use this set-up when constructing raised panel doors. Eased over edges on inside of panel groove provide less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

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



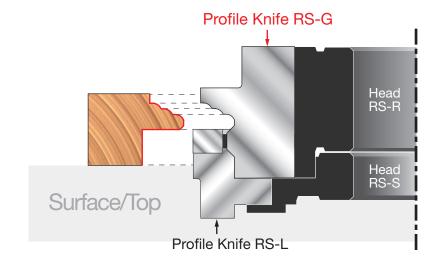
Profile Knife RS-G Glass Panel Door Set-Up



Use this set-up when a rabbeted groove is required to allow the insertion and removal of a glass panel. Use small molding to hold glass in place. No shimming should be needed.

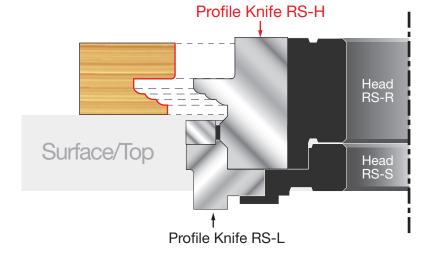
Uses: Knife RS-G, Knife RS-H, Knife RS-L, Head RS-R, and Head RS-S



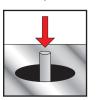


Spindle in Starting Position for Profile Cut





Spindle Lowered for Cope Cut



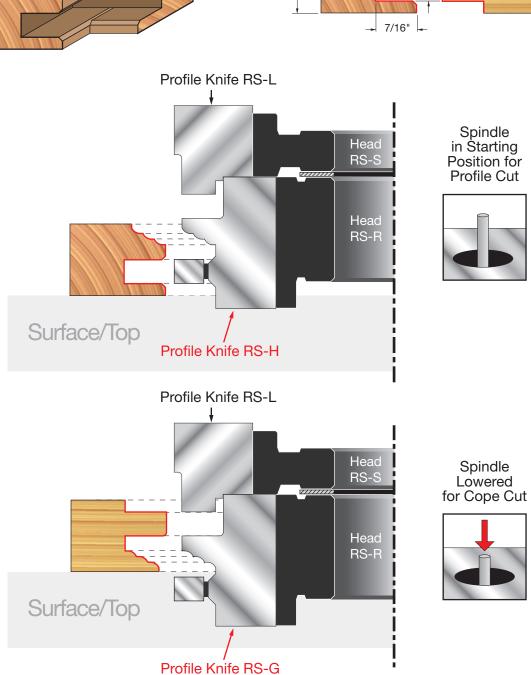


Profile Knife RS-H Glass Panel Door Set-Up

Use this set-up when constructing raised panel doors. Eased over edges on inside of panel groove provide less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

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





All Profile Drawings 1:1 Scale

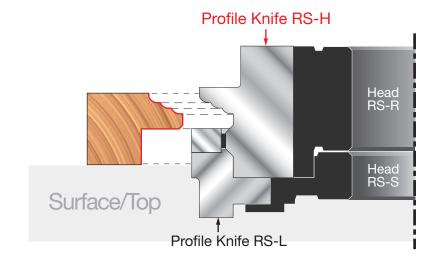
Profile Knife RS-H Glass Panel Door Set-Up



Use this set-up when a rabbeted groove is required to allow the insertion and removal of a glass panel. Use small molding to hold glass in place. No shimming should be needed.

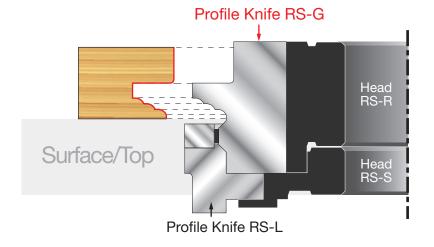
Uses: Knife RS-H, Knife RS-G, Knife RS-L, Head RS-R, and Head RS-S



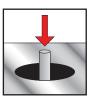








Spindle Lowered for Cope Cut

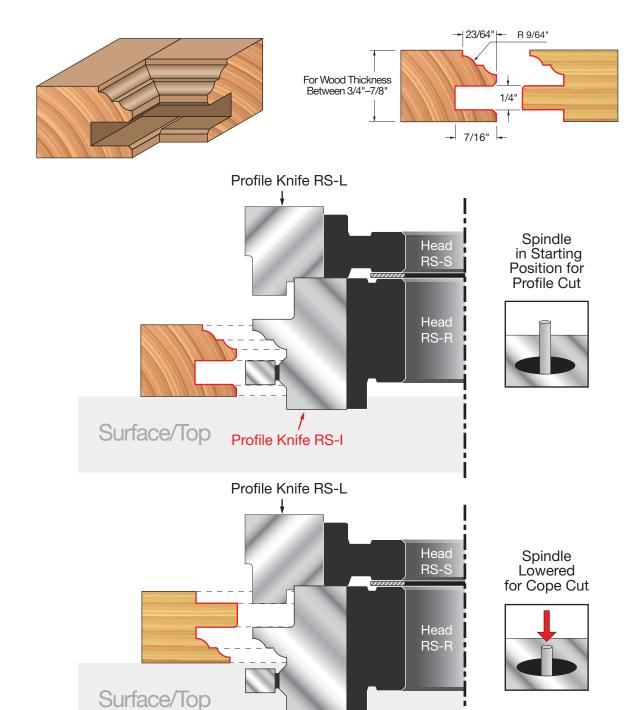




Profile Knife RS-I Raised Panel Door Set-Up

Use this set-up when constructing raised panel doors. Eased over edges on inside of panel groove provide less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

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



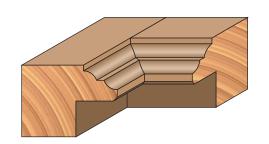
Profile Knife RS-I

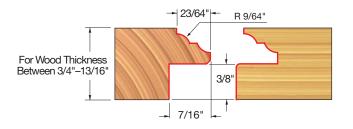
Profile Knife RS-I Glass Panel Door Set-Up

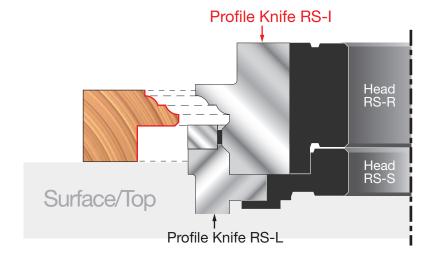


Use this set-up when a rabbeted groove is required to allow the insertion and removal of a glass panel. Use small molding to hold glass in place. No shimming should be needed.

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

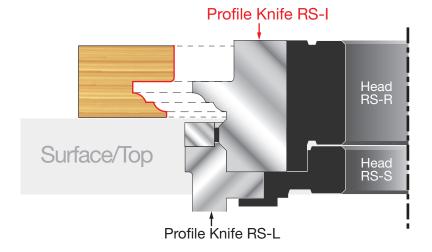




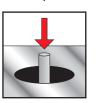


Spindle in Starting Position for Profile Cut





Spindle Lowered for Cope Cut

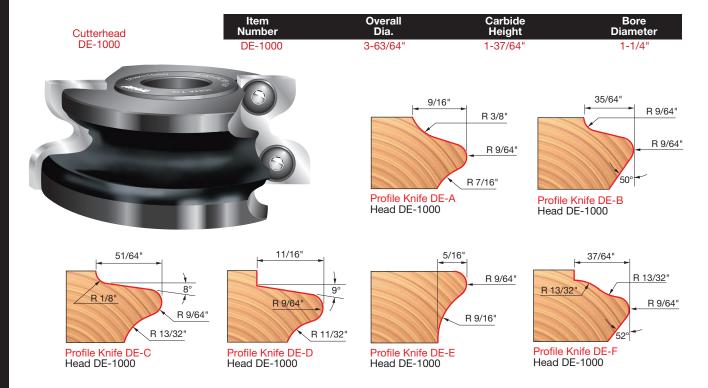




One Piece Door Edge Profile Cutters

These profile knives are used with cutterhead DE-1000 to provide a smooth edge treatment on cabinet doors. Profile allows opening of cabinet doors and drawers without pulls.

Uses: Head DE-1000 and Selected Profile Knives

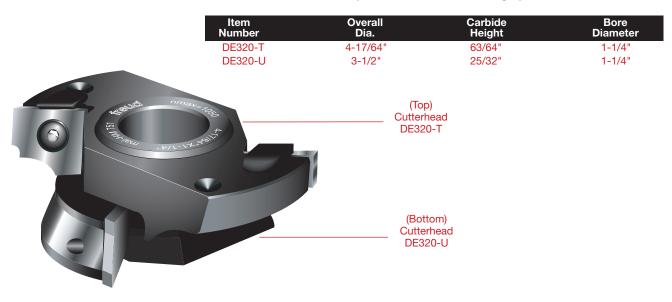




Two Piece 32mm Door Edge Profile Cutters

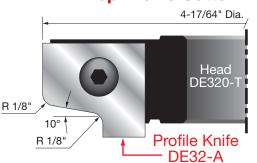
This flexible system will cut a wide variety of door edge profiles particularly suited for cabinets using the 32mm system. The heads can be used alone or in combination with each other. Profile allows opening of cabinet doors and drawers without pulls.

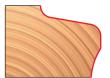
> Uses: Head DE320-U, and selected profile knives for under cut and Head DE320-T and selected profile knives for door edge profile.



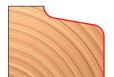
(Continued) Two Piece 32mm Door Edge Profile Cutters

Top Profile Cutter Knives For Cutterhead DE320-T:





Profile Knife DE32-A Head DE320-T (Top) Profile Knife DE32-K Head DE320-U (Bottom)



Profile Knife DE32-A Head DE320-T (Top)



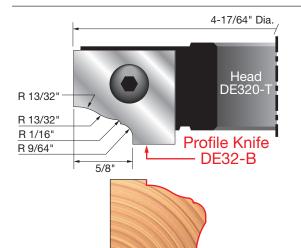
Profile Knife DE32-A Head DE320-T (Top) Profile Knife DE32-L Head DE320-U (Bottom)



Profile Knife DE32-A Head DE320-T (Top) Profile Knife DE32-J Head DE320-U (Bottom)



Profile Knife DE32-A Head DE320-T (Top) Profile Knife DE32-M Head DE320-U (Bottom)



Profile Knife DE32-B Head DE320-T (Top) Profile Knife DE32-K Head DE320-U (Bottom)



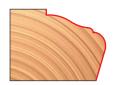
Profile Knife DE32-B Head DE320-T (Top)



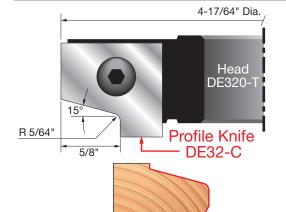
Profile Knife DE32-B Head DE320-T (Top) Profile Knife DE32-L Head DE320-U (Bottom)



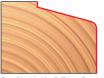
Profile Knife DE32-B Head DE320-T (Top) Profile Knife DE32-J Head DE320-U (Bottom)



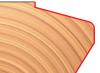
Profile Knife DE32-B Head DE320-T (Top) Profile Knife DE32-M Head DE320-U (Bottom)



Profile Knife DE32-C Head DE320-T (Top) Profile Knife DE32-K Head DE320-U (Bottom)



Profile Knife DE32-C Head DE320-T (Top)



Profile Knife DE32-C Head DE320-T (Top) Profile Knife DE32-L Head DE320-U (Bottom)





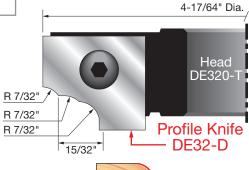
Profile Knife DE32-C Head DE320-T (Top) Profile Knife DE32-J Head DE320-U (Bottom)

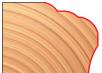


Profile Knife DE32-C Head DE320-T (Top) Profile Knife DE32-M Head DE320-U (Bottom)

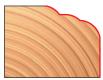


Two Piece 32mm Door Edge Profile Cutters (Continued)





Profile Knife DE32-D Head DE320-T (Top) Profile Knife DE32-K Head DE320-U (Bottom)



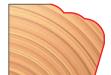
Profile Knife DE32-D Head DE320-T (Top)



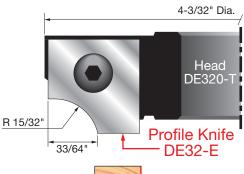
Profile Knife DE32-D Head DE320-T (Top) Profile Knife DE32-L Head DE320-U (Bottom)



Profile Knife DE32-D Head DE320-T (Top) Profile Knife DE32-J Head DE320-U (Bottom)

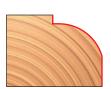


Profile Knife DE32-D Head DE320-T (Top) Profile Knife DE32-M Head DE320-U (Bottom)





Profile Knife DE32-E Head DE320-T (Top) Profile Knife DE32-K Head DE320-U (Bottom)



Profile Knife DE32-E Head DE320-T (Top)



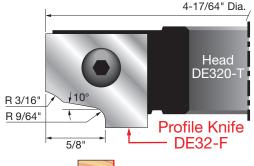
Profile Knife DE32-E Head DE320-T (Top) Profile Knife DE32-L Head DE320-U (Bottom)



Profile Knife DE32-E Head DE320-T (Top) Profile Knife DE32-J Head DE320-U (Bottom)



Profile Knife DE32-E Head DE320-T (Top) Profile Knife DE32-M Head DE320-U (Bottom)





Profile Knife DE32-F Head DE320-T (Top) Profile Knife DE32-K Head DE320-U (Bottom)



Profile Knife DE32-F



Profile Knife DE32-F Head DE320-T (Top) Profile Knife DE32-Head DE320-U (Bottom)



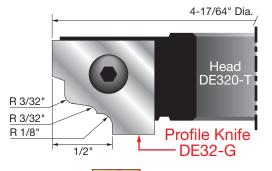
Profile Knife DE32-F Head DE320-T (Top) Profile Knife DE32-Head DE320-U (Bottom)



Profile Knife DE32-F Head DE320-T (Top) Profile Knife DE32-M Head DE320-U (Bottom)

Two Piece 32mm Door Edge Profile Cutters (Continued)







Profile Knife DE32-G Head DE320-T (Top)



Profile Knife DE32-G Head DE320-T (Top) Profile Knife DE32-J Head DE320-U (Bottom)



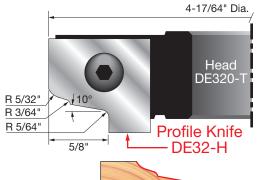
Profile Knife DE32-G Head DE320-T (Top) Profile Knife DE32-K Head DE320-U (Bottom)



Profile Knife DE32-G Head DE320-T (Top) Profile Knife DE32-L Head DE320-U (Bottom)



Profile Knife DE32-G Head DE320-T (Top) Profile Knife DE32-M Head DE320-U (Bottom)





Profile Knife DE32-H Head DE320-T (Top)



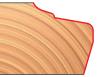
Profile Knife DE32-H Head DE320-T (Top) Profile Knife DE32-J Head DE320-U (Bottom)



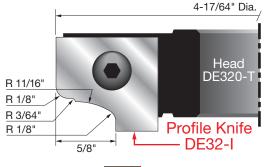
Profile Knife DE32-H Head DE320-T (Top) Profile Knife DE32-K Head DE320-U (Bottom)

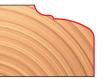


Profile Knife DE32-H Head DE320-T (Top) Profile Knife DE32-L Head DE320-U (Bottom)



Profile Knife DE32-H Head DE320-T (Top) Profile Knife DE32-M Head DE320-U (Bottom)





Profile Knife DE32-I



Profile Knife DE32-I Head DE320-T (Top) Profile Knife DE32-J Head DE320-U (Bottom)



Profile Knife DE32-I Head DE320-T (Top) Profile Knife DE32-K Head DE320-U (Bottom)



Profile Knife DE32-I Head DE320-T (Top) Profile Knife DE32-Head DE320-U (Bottom)



Profile Knife DE32-I Head DE320-T (Top) Profile Knife DE32-M Head DE320-U (Bottom)

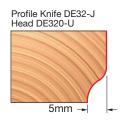


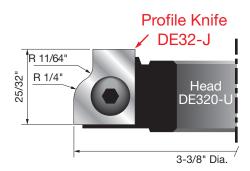
Two Piece 32mm Door Edge Profile Cutters (Continued)

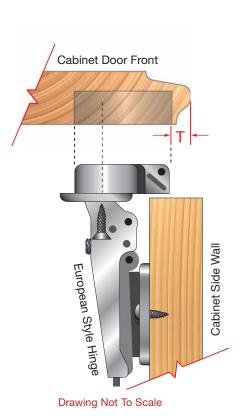
Bottom Profile Cutter Knives For Cutterhead DE320-U:

How to Select the **Proper Bottom Profile**

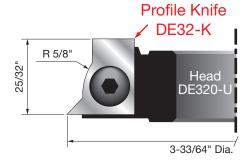
The bottom edge profiles were designed to work with today's European concealed boss hinges used in 32mm style cabinets. These profiles provide the maximum aesthetic look while maintaining door integrity. From the illustration below, if T is 3mm or more, then bottom profile knives DE32-K and DE32-M can be used (typical with standard hinges). If T is 6mm or more, then bottom profile knives DE32-J and DE32-L can be used.

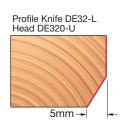


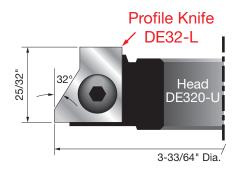




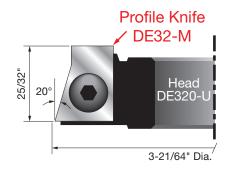












Concave Radius Knives & Head



These resharpenable carbide knives are designed to cut a bead, or round the end of a board. Head is computer balanced and is sold separately from the knives.

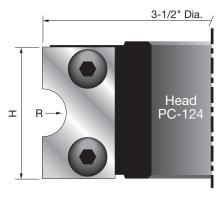
Concave Radius Head

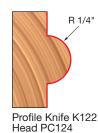
Item Number	Overall Diameter	Number of Knives Required	Bore Diameter
PC124	3-1/2"	2	1-1/4"
			Knives sold senerately

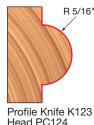
Concave Radius Knives

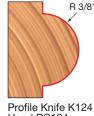
Item Number	Carbide Height	Large Radius	Head Required
K122	1-3/8"	1/4"	PC124
K123	1-3/8"	5/16"	PC124
K124	1-3/8"	3/8"	PC124
K125	1-3/8"	7/16"	PC124

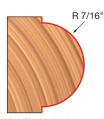
Head sold separately









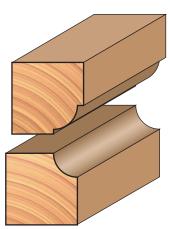


Profile Knife K125 Head PC124

Combination Quarter Round Convex

& Concave Radius Knives & Head





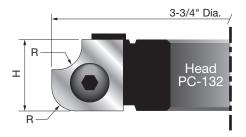
These resharpenable carbide knives are designed to cut the same radius either concave or convex. Head is computer balanced and is sold separately from the knives.

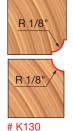
Combination Quarter Round Convex & Concave Radius Head

Item Number	Overall Diameter	Number of Knives Required	Bore Diameter
PC132	3-3/4"	2	1-1/4"
			Knives sold separately

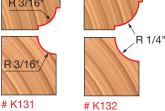
Combination Quarter Round Convex & Concave Radius Knives

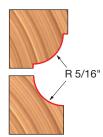
Item Number	Carbide Height	Large Radius	Head Required
K130	3/4"	1/8"	PC132
K131	3/4"	3/16"	PC132
K132	3/4"	1/4"	PC132
K133	3/4"	5/16"	PC132
			Head sold separately







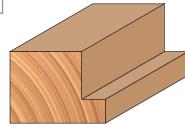


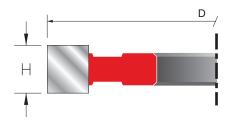


K133







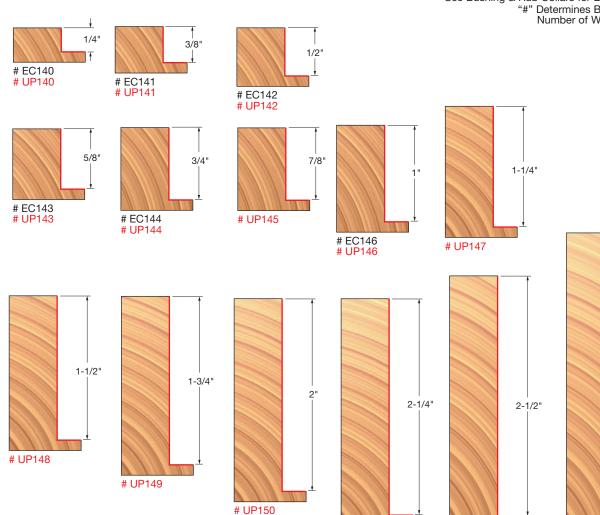


Straight Edge Cutters

These cutters are computer balanced for super smooth, chatter-free cutting. Straight profile for making precise rabbets and dadoes.

Item Number	Overall Dia.(D)	Carbide Height	Bore Diameter	Rub Collar Number
EC140	27/8"	1/4"	3/4"	RC-003
EC141	2-7/8"	3/8"	3/4"	RC-003
EC142	2-7/8"	1/2"	3/4"	RC-003
EC143	2-7/8"	5/8"	3/4"	RC-003
EC144	2-7/8"	3/4"	3/4"	RC-003
EC146	2-7/8"	1"	3/4"	RC-003
UP140	3-9/16"	1/4"	1-1/4"	RC50#
UP141	3-9/16"	3/8"	1-1/4"	RC50#
UP142	3-9/16"	1/2"	1-1/4"	RC50#
UP143	3-9/16"	5/8"	1-1/4"	RC50#
UP144	3-9/16"	3/4"	1-1/4"	RC50#
UP145	3-9/16"	7/8"	1-1/4"	RC50#
UP146	3-9/16"	1"	1-1/4"	RC50#
UP147	3-9/16"	1-1/4"	1-1/4"	RC50#
UP148	3-9/16"	1-1/2"	1-1/4"	RC50#
UP149	3-9/16"	1-3/4"	1-1/4"	RC50#
UP150	3-9/16"	2"	1-1/4"	RC50#
UP151	3-9/16"	2-1/4"	1-1/4"	RC50#
UP152	3-9/16"	2-1/2"	1-1/4"	RC50#
UP153	3-9/16"	3"	1-1/4"	RC50#

See Bushing & Rub Collars for Bore Size "#" Determines Bore Size Number of Wings = 3

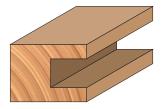


UP151

UP152

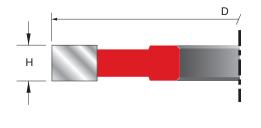
3"





Excellent for use on shapers and cope spindles of double end tenoners. Suitable for grooving hardwood, softwood, and composition board.

Item Number	Overall Dia.(D)	Number of Wings	Carbide Height(H)	Bore Diameter
UP170	4"	6	1/8"	1-1/4"
UP171	4"	6	1/4"	1-1/4"
UP172	4"	6	3/8"	1-1/4"
UP173	4"	6	1/2"	1-1/4"
UP174	4"	6	3/4"	1-1/4"
UP175	6"	8	1/8"	1-1/4"
UP176	6"	8	1/4"	1-1/4"
UP177	6"	8	3/8"	1-1/4"
UP178	6"	8	1/2"	1-1/4"
UP179	6"	8	3/4"	1-1/4"
UP181	8"	12	1/4"	1-1/4"
UP182	8"	12	3/8"	1-1/4"
UP183	8"	12	1/2"	1-1/4"
UP184	8"	12	3/4"	1-1/4"









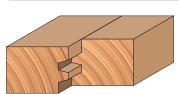




UP174 # UP179 # UP184

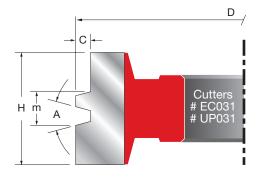
Reversible Glue Joint Cutters

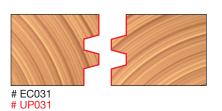




Freud's Reversible Glue Joint Cutters will produce a strong joint by increasing the surface area for the glue. Boards should be planed to a uniform thickness. Cutter should be aligned to the center of the board, then reverse each board for a perfect glue joint.

Item Number	Overall Diameter	Cut Depth(C)	Carbide Height(H)	Minor Height(m)	Angle (A)	Bore Diameter
EC031	2-7/8"	5/32"	1-17/64"	23/64"	30°	3/4"
UP031	3-9/16"	5/32"	1-3/16"	23/64"	30°	1-1/4"

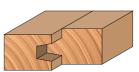






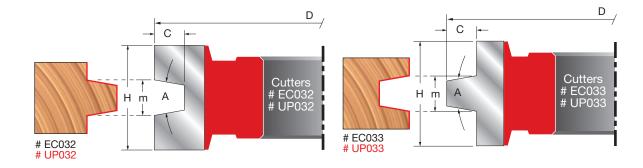


Wedge Tongue & Groove Cutters



These cutters produce exceptionally strong joints when gluing up boards edge to edge. This design gives an increased amount of gluing area for maximum strength.

Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Minor Height(m)	Angle (A)	Bore Diameter
EC032	2-7/8"	5/16"	1-7/64"	3/8"	20°	3/4"
EC033	2-7/8"	5/16"	1-7/64"	3/8"	20°	3/4"
UP032	3-9/16"	5/16"	1-3/32"	3/8"	20°	1-1/4"
UP033	3-9/16"	5/16"	1-3/32"	3/8"	20°	1-1/4"

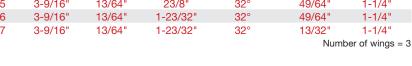


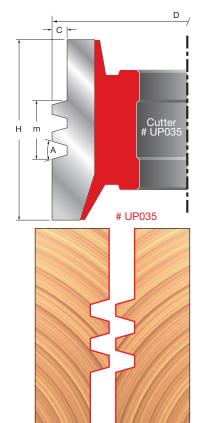


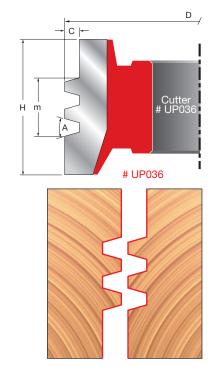
Glue Joint Cutters

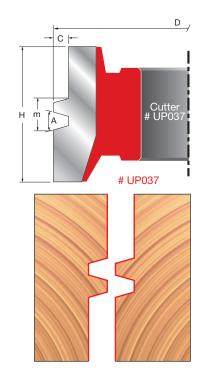
Freud's Glue Joint Cutters produce a strong joint in thick stock by increasing the surface area for the glue. Boards should be planed to a uniform thickness. Cutter should be aligned to the center of the board, then reverse each board for a perfect glue joint.

Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Angle (A)	Minor Height(m)	Bore Diameter
UP035	3-9/16"	13/64"	23/8"	32°	49/64"	1-1/4"
UP036	3-9/16"	13/64"	1-23/32"	32°	49/64"	1-1/4"
UP037	3-9/16"	13/64"	1-23/32"	32°	13/32"	1-1/4"



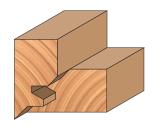






Tongue & Groove Lock Miter Cutters

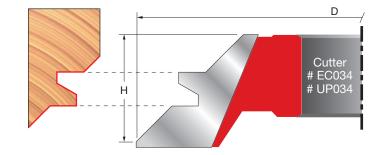


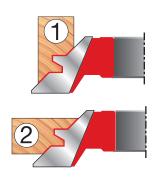


These cutters are designed to make lock miter joints with ease. All you do is run one board vertically and the piece to be joined vertically.

Item Number	Overall Dia.(D)	Carbide Height(H)	Bore Diameter
EC034	4-5/32"	1-5/32"	3/4"
UP034	4-3/4"	1-3/16"	1-1/4"

Number of Wings = 3

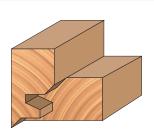






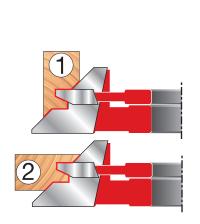
Double Tongue & Groove Lock Miter Set

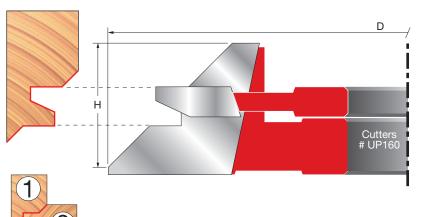




This Lock Miter Set consists of two three-wing cutters. One sits inside the other to allow the joining of boards from 5/8" thick to 1-3/16" thick. After mounting the head on the spindle, a test piece should be made. One piece is run horizontally and the second is run vertically. Shims are included to allow for adjusting joint tightness.

Item Number	Overall Dia.(D)	Carbide Height(H)	Bore Diameter
UP160	7-3/32"	1-5/16"	1-1/4"
Number of pieces = 2			Number of Wings = 3





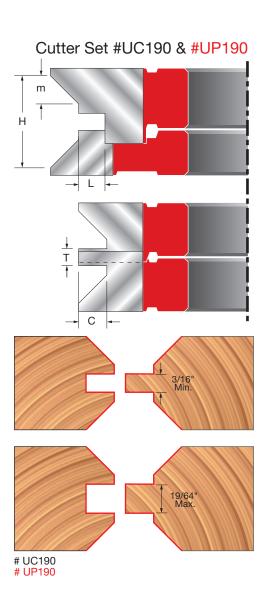


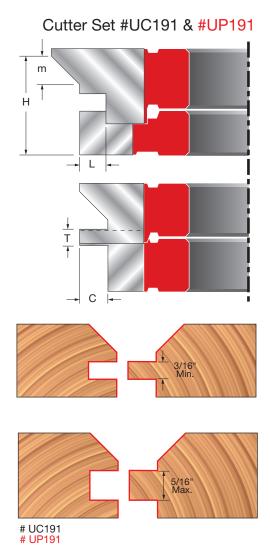


V-Paneling Cutter Sets

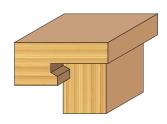
These cutters sets are designed to make V-groove paneling with a strong tongue and groove joint. Each set can be used with 1/2", 3/4", and 1" stock. Shims are included to allow the thickness of the tongue to increase as stock increases. UP190 cuts a V-groove on both sides of the paneling, while UP191 only cuts a V-groove on one side.

	Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Minor Height(m)	Tenon Thickness(R)	Tenon Length(L)	Bore Dia.
NEW	►UC190	3-35/64"	19/64"	1-5/16"-1-5/64	" 19/64"	3/16"-19/64"	19/64"	3/4"
	UP190	4-1/8"	19/64"	31/32"-1-5/64"	19/64"	3/16"-19/64"	19/64"	1-1/4"
NEW	►UC191	3-35/64"	9/32"	1-1/32"-1-5/32	" 19/64"	3/16"-5/16"	9/32"	3/4"
	UP191	4-1/8"	9/32"	1-1/16"-1-3/16	" 19/64"	3/16"-5/16"	9/32"	1-1/4"
	Number of	nieces – 4					Number of	f wings - 3



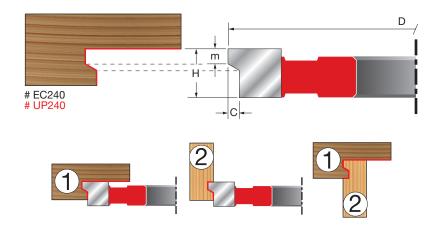


Drawer Lock Cutters

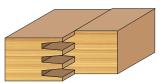


Designed for 1/2" and 3/4" thick stock, these cutters provide a strong joint for drawer fronts. Run the drawer face flat on the shaper table, and the drawer sides vertically on the fence. Once correct setup is attained for drawer front, height of cutter does not need to be changed to run drawer sides.

Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Minor Height(m)	Bore Diameter
EC240	2-7/8"	1/8"	33/64"	5/32"	3/4"
UP240	3-15/16"	1/8"	33/64"	5/32"	1-1/4"
				Nur	mber of Wings = 3



Finger Joint Cutter



This cutter is used where very strong joining is needed. The cutter has three balanced wings and will join wood up to 5/8" thick. Wider boards can be joined by stacking multiple cutters on the spindle. After the first board is cut, the spindle should be raised or lowered 1/8" to make the mating cut.

	ltem Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Minor Height(m)	Angle (A)	Bore Diameter
NEW	➤ UC250	2-61/64"	11/32"	25/32"	15/64"	10°	3/4"
	UP250	3-9/16"	11/32"	25/32"	15/64"	10°	1-1/4"

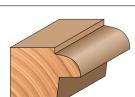
D

UC250 # UP250







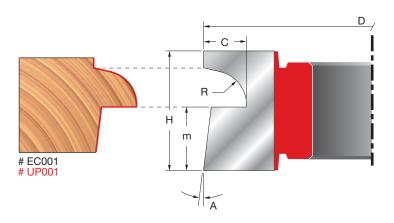


Door Lip Cutters

These cutters are designed for counter-clockwise rotation with the rabbet down, popular with raised panel doors where the panel extends further than the door frame. With clockwise rotation they can be used with the face down, so inconsistency in door thickness will not show when doors are closed.

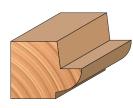
Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Minor Height(m)	Large Radius(R)	Angle (A)	Bore Diameter
EC001	2-7/8"	29/64"	1-1/4"	43/64"	23/64"	7°	3/4"
UP001	3-9/16"	29/64"	1-1/4"	43/64"	23/64"	7°	1-1/4"

Number of Wings = 3

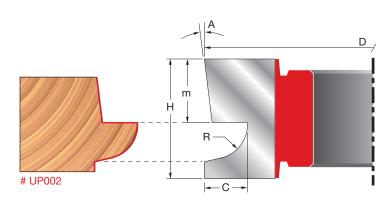




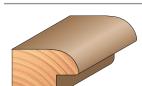
This cutter is designed for clockwise rotation with the rabbet down, popular with raised panel doors where the panel extends further than the door frame. With counterclockwise rotation it can be used with the face down, so inconsistency in door thickness will not show when doors are closed.



Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Minor Height(m)	Large Radius(R)	Angle (A)	Bore Diameter
UP002	3-9/16"	29/64"	1-1/4"	43/64"	23/64"	7°	1-1/4"
						Numbe	er of Wings = 3



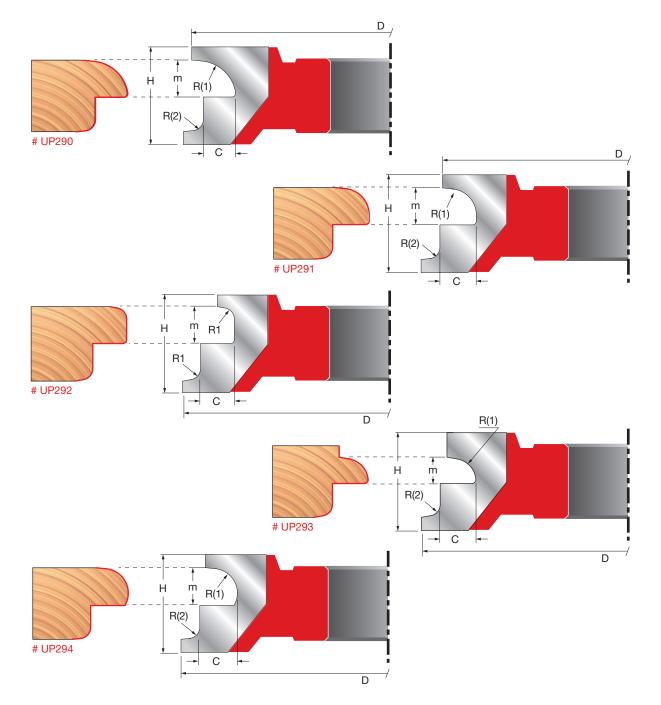
Door Lip Cutters



All of these door lip cutters leave a smooth radius on the back of the rabbet for easier finishing. By varying the height and fence settings these door lip cutters can provide different profiles.

ltem Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Minor Height(m)	Large Radius(R1)	Small Radius(R2)	Bore Diameter
UP290	4-21/64"	7/16"	1-1/32"	25/64"	25/64"	-	1-1/4"
UP291	3-15/16"	3/8"	1-1/32"	25/64"	9/32"	1/8"	1-1/4"
UP292	4-21/64"	23/64"	1-1/32"	25/64"	1/8"	_	1-1/4"
UP293	4-21/64"	3/8"	1-1/32"	9/32"	15/64"	1/8"	1-1/4"
UP294	4-21/64"	25/64"	1-1/32"	25/64"	1/4"	1/8"	1-1/4"
UP295	4-21/64"	13/32"	1-1/32"	25/64"	1/8"	1/8"	1-1/4"
UP296	4-21/64"	13/32"	1-1/32"	25/64"	1/8"	5/64"	1-1/4"
UP297	4-21/64"	7/16"	1-1/32"	23/64"	19/32"	1/8"	1-1/4"

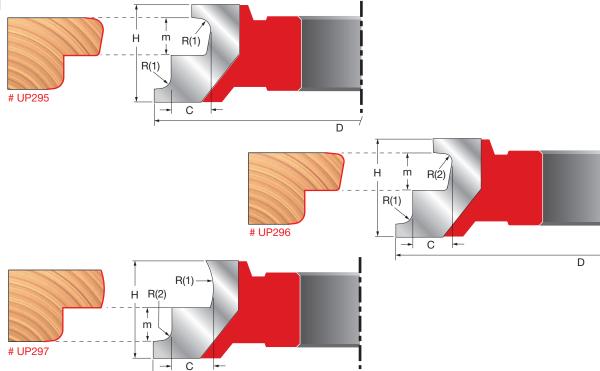
Number of Wings = 3





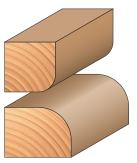
(Continued)

Door Lip Cutters





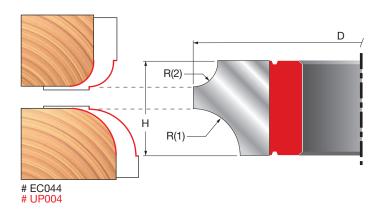
Combination 1/4" & 1/2" Round Over Cutters



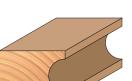
This cutter is actually two cutters in one. One part is a 1/4" rounding over cutter and the other is a 1/2" rounding over cutter. It can also be used as a molding profile cutter and a beading cutter.

Item Number	Overall Dia.(D)	Carbide Height(H)	Large Radius(R1)	Small Radius(R2)	Bore Diameter
EC044	2-7/8"	1"	1/2"	1/4"	3/4"
UP004	3-9/16"	1"	1/2"	1/4"	1-1/4"

Number of Wings = 3



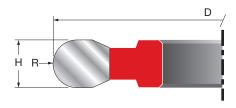
Convex Radius Cutters

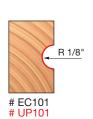


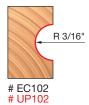
These computer balanced three-wing cutters are a necessity to anyone who has a shaper. They can be used for cutting flutes and coves. Available in the most popular sizes in both 3/4" and 1-1/4" bore.

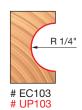
o has a	
popular	

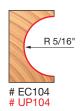
Item Number	Overall Dia.(D)	Carbide Height(H)	Large Radius(R)	Bore Diameter
EC101	2-7/8"	1/4"	1/8"	3/4"
EC102	2-7/8"	3/8"	3/16"	3/4"
EC103	2-7/8"	1/2"	1/4"	3/4"
EC104	2-7/8"	5/8"	5/16"	3/4"
EC105	2-7/8"	3/4"	3/8"	3/4"
UP101	3-9/16"	1/4"	1/8"	1-1/4"
UP102	3-9/16"	3/8"	3/16"	1-1/4"
UP103	3-9/16"	1/2"	1/4"	1-1/4"
UP104	3-9/16"	5/8"	5/16"	1-1/4"
UP105	3-9/16"	3/4"	3/8"	1-1/4"
UP106	3-9/16"	7/8"	7/16"	1-1/4"
UP107	3-9/16"	1"	1/2"	1-1/4"
UP108	3-9/16"	1-1/4"	5/8"	1-1/4"
UP109	3-5/8"	1-1/2"	3/4"	1-1/4"
UP110	4"	2"	1"	1-1/4" Number of Wings = 3

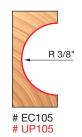


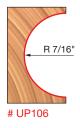




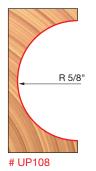


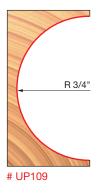


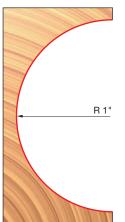












UP110

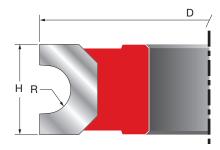


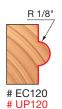


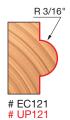
Concave Radius Cutters

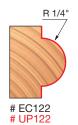
These computer balanced three-wing cutters are a necessity to anyone who has a shaper. They can be used for cutting beads and rounding the end of boards. Available in the most popular sizes for both 3/4" and 1-1/4" bore.

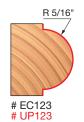
Item Number	Overall Dia.(D)	Carbide Height(H)	Large Radius(R)	Bore Diameter
EC120	2-7/8"	5/8"	1/8"	3/4"
EC121	2-7/8"	25/32"	3/16"	3/4"
EC122	2-7/8"	15/16"	1/4"	3/4"
EC123	2-7/8"	1-1/8"	5/16"	3/4"
EC124	2-7/8"	1-1/4"	3/8"	3/4"
UP120	3-9/16"	21/32"	1/8"	1-1/4"
UP121	3-9/16"	13/16"	3/16"	1-1/4"
UP122	3-9/16"	31/32"	1/4"	1-1/4"
UP123	3-9/16"	1-1/8"	5/16"	1-1/4"
UP124	3-9/16"	1-9/32"	3/8"	1-1/4"
UP125	3-5/8"	1-13/32"	7/16"	1-1/4"
UP126	4"	1-39/64"	1/2"	1-1/4"
UP127	4-3/8"	1-51/64"	5/8"	1-1/4"
UP128	4-11/16"	2-7/64"	3/4"	1-1/4"
UP129	5-1/8"	2-39/64"	1"	1-1/4"

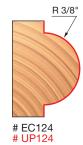




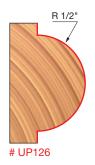












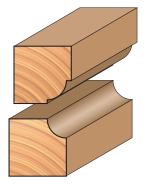






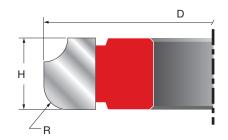
Combination Convex & Concave Cutters

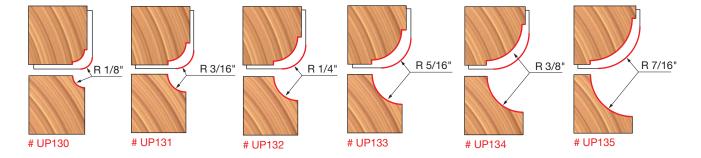


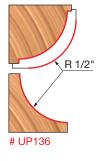


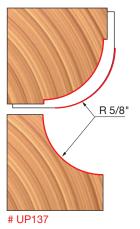
Freud's Combination Convex & Concave Cutters offer maximum versatility because they will cut half round beads, quarter round beads, coves, and rounding over cuts. These bits are great for making drop leaf tables by creating mating profiles with one cutter.

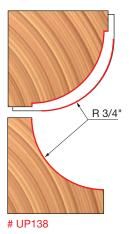
Item Number	Overall Dia.(D)	Carbide Height(H)	Large Radius(R)	Bore Diameter
UP130	3-9/16"	9/16"	1/8"	1-1/4"
UP131	3-9/16"	19/32"	3/16"	1-1/4"
UP132	3-9/16"	3/4"	1/4"	1-1/4"
UP133	3-9/16"	63/64"	5/16"	1-1/4"
UP134	3-9/16"	1-1/64"	3/8"	1-1/4"
UP135	3-5/8"	1-1/8"	7/16"	1-1/4"
UP136	4-1/4"	1-23/64"	1/2"	1-1/4"
UP137	4-11/16"	1-35/64"	5/8"	1-1/4"
UP138	4-11/16"	1-53/64"	3/4"	1-1/4"
UP139	5-1/8"	2-1/4"	1"	1-1/4"
				NI

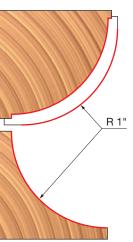






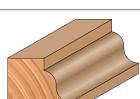










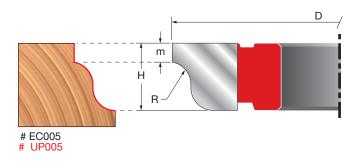


Roman Ogee Cutters

The Roman Ogee pattern of edge treatments will lend an air of classical styling to any piece. The pattern can also be changed by raising or lowering the spindle.

Item Number	Overall Dia.(D)	Carbide Height(H)	Minor Height(m)	Large Radius(R)	Bore Diameter
EC005	2-7/8"	25/32"	9/32"	15/64"	3/4"
UP005	3-5/8"	45/64"	13/64"	15/64"	1-1/4"

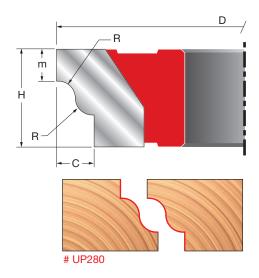
Number of Wings = 3

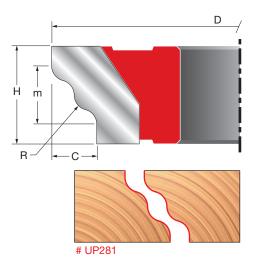


Matched Reverse Detail Cutters

These cutters have perfectly matched profiles which enable both the molding cut and a matching coping cut with the same cutter.

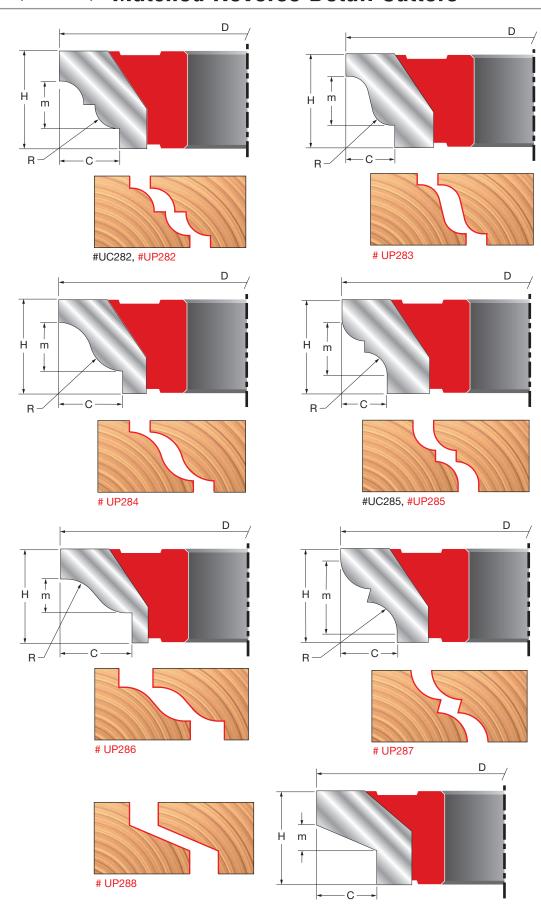
Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Minor Height(m)	Large Radius(R)	Angle (A)	Bore Diameter
➤ UC282	3-11/32"	5/8"	1-1/32"	1/2"	15/64"		3/4"
► UC285	3-11/32"	15/32"	1"	19/32"	15/64"	-	3/4"
UP280	3-15/16"	25/64"	1-3/32"	23/64"	11/64"	-	1-1/4"
UP281	3-15/16"	15/32"	1-3/32"	5/16"	5/32"	-	1-1/4"
UP282	3-15/16"	5/8"	1-3/32"	1/2"	15/64"	-	1-1/4"
UP283	3-15/16"	33/64"	63/64"	33/64"	13/64"	-	1-1/4"
UP284	3-15/16"	43/64"	63/64"	33/64"	23/64"	_	1-1/4"
UP285	3-15/16"	15/32"	63/64"	19/32"	15/64"	-	1-1/4"
UP286	3-15/16"	3/4"	63/64"	23/64"	23/64"	_	1-1/4"
UP287	3-15/16"	19/32"	63/64"	3/4"	5/16"	-	1-1/4"
UP288	4-1/8"	5/8"	63/64"	17/64"	_	23°	1-1/4"
	Number UC282 UC285 UP280 UP281 UP282 UP283 UP284 UP285 UP286 UP287	Number Dia.(D) UC282 3-11/32" UC285 3-11/32" UP280 3-15/16" UP281 3-15/16" UP282 3-15/16" UP283 3-15/16" UP284 3-15/16" UP285 3-15/16" UP286 3-15/16" UP287 3-15/16"	Number Dia.(D) Depth(C) UC282 3-11/32" 5/8" UC285 3-11/32" 15/32" UP280 3-15/16" 25/64" UP281 3-15/16" 15/32" UP282 3-15/16" 5/8" UP283 3-15/16" 33/64" UP284 3-15/16" 43/64" UP285 3-15/16" 15/32" UP286 3-15/16" 3/4" UP287 3-15/16" 19/32"	Number Dia.(D) Depth(C) Height(H) UC282 3-11/32" 5/8" 1-1/32" UC285 3-11/32" 15/32" 1" UP280 3-15/16" 25/64" 1-3/32" UP281 3-15/16" 15/32" 1-3/32" UP282 3-15/16" 5/8" 1-3/32" UP283 3-15/16" 33/64" 63/64" UP284 3-15/16" 43/64" 63/64" UP285 3-15/16" 15/32" 63/64" UP286 3-15/16" 3/4" 63/64" UP287 3-15/16" 19/32" 63/64"	Number Dia.(D) Depth(C) Height(H) Height(m) UC282 3-11/32" 5/8" 1-1/32" 1/2" UC285 3-11/32" 15/32" 1" 19/32" UP280 3-15/16" 25/64" 1-3/32" 23/64" UP281 3-15/16" 15/32" 1-3/32" 5/16" UP282 3-15/16" 5/8" 1-3/32" 1/2" UP283 3-15/16" 33/64" 63/64" 33/64" UP284 3-15/16" 43/64" 63/64" 33/64" UP285 3-15/16" 15/32" 63/64" 19/32" UP286 3-15/16" 3/4" 63/64" 23/64" UP287 3-15/16" 19/32" 63/64" 3/4"	Number Dia.(D) Depth(C) Height(H) Height(m) Radius(R) UC282 3-11/32" 5/8" 1-1/32" 1/2" 15/64" UC285 3-11/32" 15/32" 1" 19/32" 15/64" UP280 3-15/16" 25/64" 1-3/32" 23/64" 11/64" UP281 3-15/16" 15/32" 1-3/32" 5/16" 5/32" UP282 3-15/16" 5/8" 1-3/32" 1/2" 15/64" UP283 3-15/16" 33/64" 63/64" 33/64" 13/64" UP284 3-15/16" 43/64" 63/64" 33/64" 23/64" UP285 3-15/16" 15/32" 63/64" 19/32" 15/64" UP286 3-15/16" 3/4" 63/64" 23/64" 23/64" UP287 3-15/16" 19/32" 63/64" 3/4" 5/16"	Number Dia.(D) Depth(C) Height(H) Height(m) Radius(R) (A) UC282 3-11/32" 5/8" 1-1/32" 1/2" 15/64" - UC285 3-11/32" 15/32" 1" 19/32" 15/64" - UP280 3-15/16" 25/64" 1-3/32" 23/64" 11/64" - UP281 3-15/16" 15/32" 1-3/32" 5/16" 5/32" - UP282 3-15/16" 5/8" 1-3/32" 1/2" 15/64" - UP283 3-15/16" 33/64" 63/64" 33/64" 13/64" - UP284 3-15/16" 43/64" 63/64" 33/64" 23/64" - UP285 3-15/16" 15/32" 63/64" 19/32" 15/64" - UP286 3-15/16" 3/4" 63/64" 23/64" 23/64" - UP287 3-15/16" 19/32" 63/64" 3/4" 5/16" -





(Continued) Matched Reverse Detail Cutters







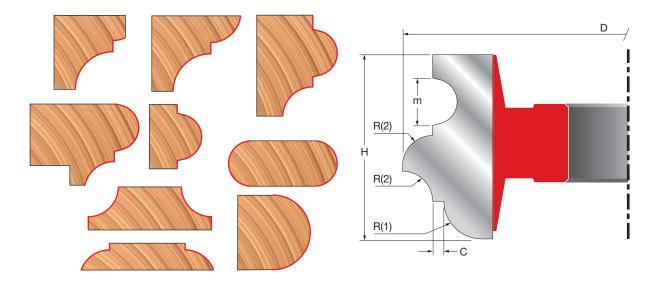


Multi-Profile Cutters

These cutters produce a countless number of molding profiles. The beautiful profiles are created by varying the height and fence setting. By making multiple passes, a countless number of moldings can be made.

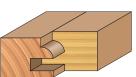
Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Minor Height(m)	Large Radius(R)	Angle (A)	Bore Diameter
PK1	3-3/4"	1/8"	1-15/16"	1/2"	25/64"	5/16"	3/4"
PK2	4-23/32"	1/8"	1-15/16"	1/2"	25/64"	5/16"	1-1/4"

Number of Wings = 3





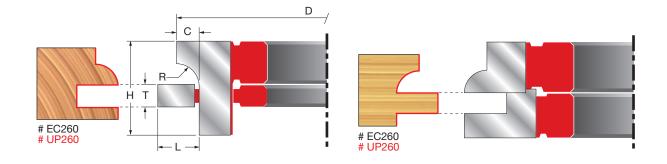
3/4" Stock Male & Female Cabinet Door Cutter Sets



These male & female cutter sets are perfect for the high production needs of a cabinet or door shop. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Tenon Thickness(T)	Tenon Length(L)		Bore Dia.	Rub Collar Number
EC260	2-7/16"	15/64"	1"	15/64"	7/16"	15/64"	3/4"	RC-001
UP260	3-9/16"	15/64"	1"	15/64"	7/16"	15/64"	1-1/4"	RC30#

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



3/4" Stock Male & Female Cabinet Door Cutter Sets

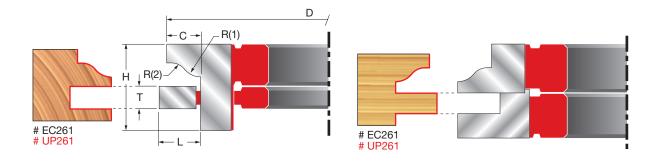




These male & female cutter sets are perfect for the high production needs of a cabinet or door shop. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

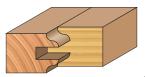
	Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Tenon Thickness(T)	Tenon Length(L)	Large Radius(R1)			Rub Collar Number
_	EC261	2-11/16"	11/32"	1"	15/64"	7/16"	9/32"	11/64"	3/4"	RC-001
	UP261	3-9/16"	11/32"	29/32"	15/64"	7/16"	9/32"	11/64"	1-1/4"	RC30#

"#" Determines Bore Size See Bushing & Rub Collars for Bore Selection Number of Wings=3 Number of Pieces=4



3/4" Stock Male & Female Cabinet Door Cutter Sets

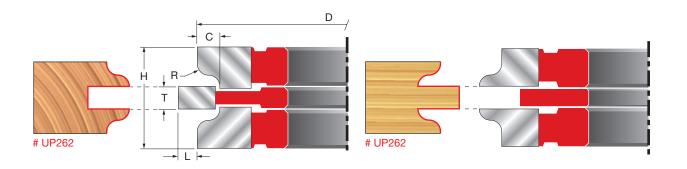




These male & female cutter sets are perfect for the high production needs of a cabinet or door shop. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

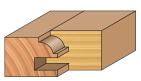
				Tenon Thickness(T)				Rub Collar Number
UP262	3-9/16"	15/64"	1-1/16"	15/64"	7/16"	1/8"	1-1/4"	RC30#

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





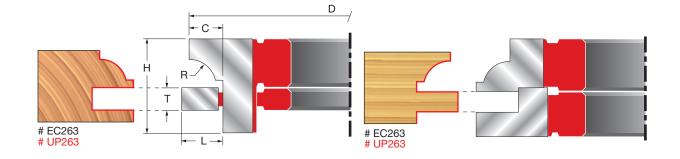
3/4" Stock Male & Female Cabinet Door Cutter Sets



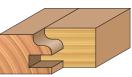
These male & female cutter sets are perfect for the high production needs of a cabinet or door shop. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

Item Number	Overall Dia.(D)			Tenon Thickness(T)			Bore Dia.	Rub Collar Number
EC263	2-11/16"	11/32"	1"	15/64"	7/16"	9/32"	3/4"	RC-001
UP263	3-9/16"	11/32"	1"	15/64"	7/16"	9/32"	1-1/4"	RC30#
"#" Dotorm	Numbe	or of Wings-2						

"#" Determines Bore Size See Bushing & Rub Collars for Bore Selection Number of Wings=3 Number of Pieces=4

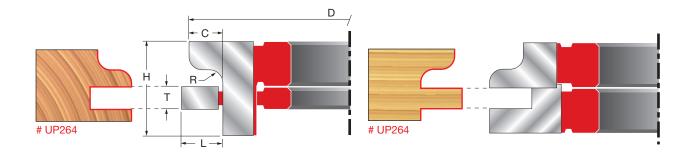


3/4" Stock Male & Female Cabinet Door Cutter Sets



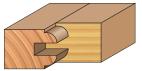
These male & female cutter sets are perfect for the high production needs of a cabinet or door shop. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Tenon Thickness(T)	Tenon Length(L)			Rub Collar Number
UP264	3-9/16"	11/32"	1"	15/64"	7/16"	9/64"	1-1/4"	RC30#
"#" Determi See Bushine			re Selection				er of Wings=3 or of Pieces=4	



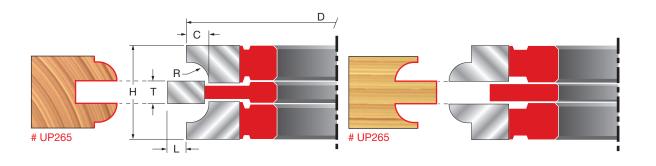
3/4" Stock Male & Female Cabinet Door Cutter Sets





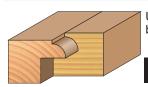
These male & female cutter sets are perfect for the high production needs of a cabinet or door shop. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Tenon Thickness(T)	Tenon Length(L)	Large Radius(R)	Bore Dia.	Rub Collar Number	
UP265	3-9/16"	15/64"	63/64"	15/64"	7/16"	13/64"	1-1/4"	RC30#	
	"#" Determines Bore Size See Bushing & Rub Collars for Bore Selection								



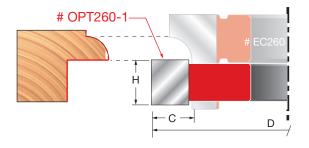
Glass Door Cutter For EC260, EC261, & EC263

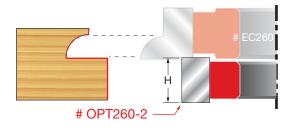




Use this set of cutters with EC260, EC261, or EC263 to make rabbets required in the back of doors for glass panels. Secure glass in place with a small piece of molding.

Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Bore Diameter
OPT260	2-53/64"	7/16"	15/32"	3/4"
Number of Wings	:= 3			Number of pieces = 2









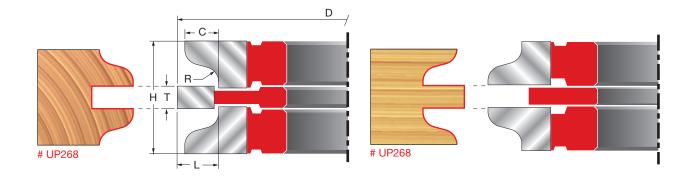
1" Stock Male & Female Door Cutter Set

This male & female cutter set makes a molding cut on both sides of the rail and stile. Ideal for lightweight doors or divider screens. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

				Tenon Thickness(T)				
UP268	3-9/16"	23/64"	1-3/16"	15/64"	7/16"	5/32"	1-1/4"	RC30#

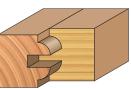
"#" Determines Bore Size See Bushing & Rub Collars for Bore Selection

Number of Wings=3 Number of Pieces=6





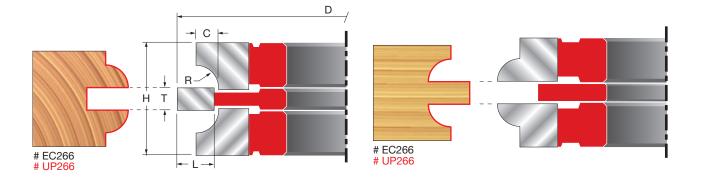
1" Stock Male & Female Door Cutter Sets



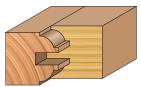
These male & female cutter sets makes a molding cut on both sides of the rail and stile. Ideal for lightweight doors or divider screens. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

	Item Number	Overall Dia.(D)			Tenon Thickness(T)		Large Radius(R)	Bore Dia.	Rub Collar Number
•	EC266	2-27/32"	15/64"	1-3/16"	15/64"	7/16"	15/64"	3/4"	RC-001
	UP266	3-9/16"	15/64"	1-3/16"	15/64"	7/16"	15/64"	1-1/4"	RC30#

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



1" Stock Male & Female Door Cutter Set

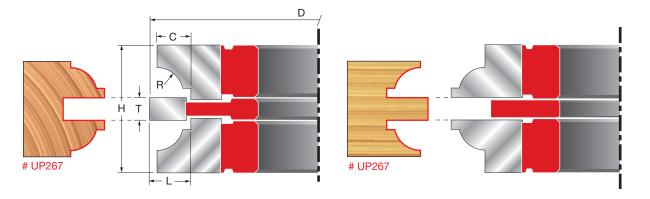


This male & female cutter set makes a molding cut on both sides of the rail and stile. Ideal for lightweight doors or divider screens. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

				Tenon Thickness(T)				
UP267	3-9/16"	11/32"	1-11/32"	15/64"	7/16"	9/32"	1-1/4"	RC30#

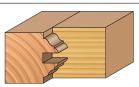
"#" Determines Bore Size See Bushing & Rub Collars for Bore Selection

Number of Wings=3 Number of Pieces=6



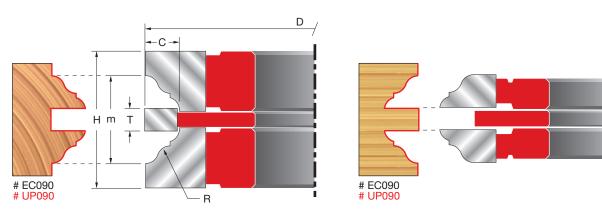
Classical Profile Interior Door Cutter Sets





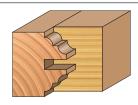
These cutter sets cut a classical pattern rail and stile for standard 1-3/8" thick interior doors. Cuts both the molding cut and the coping cut. Shims are included to ensure perfectly fitted joints through many sharpenings.

Item Number	Overall Dia.(D)	Carbide Height(H)	Minor Height(m)	Tenon Thickness(T)	Large Radius(R)	Bore Diameter
EC090	2-7/8"	23/64"	1-37/64"	15/64"	9/64"	3/4"
UP090	3-9/16"	23/64"	1-27/64"	15/64"	1/8"	1-1/4"



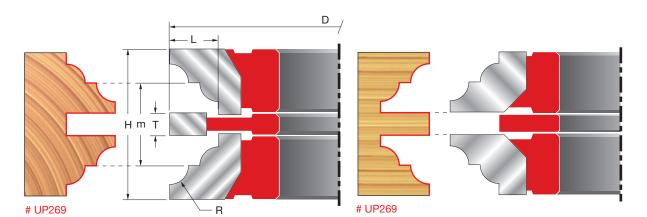


1-3/8" Stock Male & Female Interior Door Cutter Sets



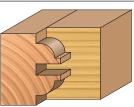
This male & female cutter set cuts a cove and bead pattern on both sides of the rail and stile. Ideal for interior doors. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Tenon Thickness(T)	Tenon Length(L)	Large Radius(R)	Bore Dia.	Rub Collar Number	
UP269	3-9/16"	1-37/64"	7/8"	15/64"	33/64"	13/64"	1-1/4"	RC20#	
	"#" Determines Bore Size See Bushing & Bub Collars for Bore Selection								





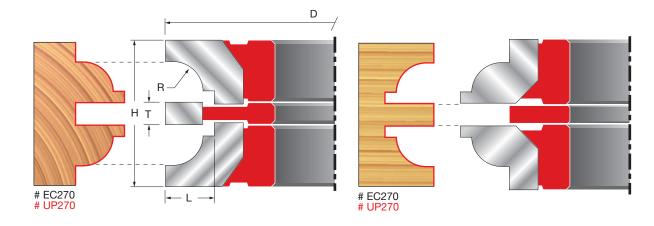
1-3/8" Stock Male & Female Interior Door Cutter Sets



These male & female cutter sets cut a bead pattern on both sides of the rail and stile. Ideal for interior doors. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

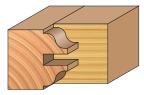
Item Number		Carbide Height(H)	Tenon Thickness(T)		Large Radius(R)		
EC270	2-27/32"	1-37/64"	15/64"	33/64"	5/16"	3/4"	RC-001
UP270	3-9/16"	1-37/64"	15/64"	33/64"	5/16"	1-1/4"	RC20#

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



1-3/8" Stock Male & Female Interior Door Cutter Set

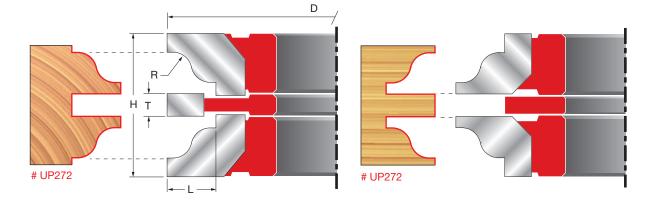




This male & female cutter set cuts an ogee pattern on both sides of the rail and stile. Ideal for interior doors. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

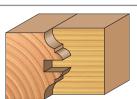
		Carbide Height(H)	Tenon Thickness(T)		Large Radius(R)		
UP272	3-9/16"	1-1/2"	15/64"	17/32"	3/16"	1-1/4"	RC20#

"#" Determines Bore Size See Bushing & Rub Collars for Bore Selection Number of Wings=3 Number of Pieces=6



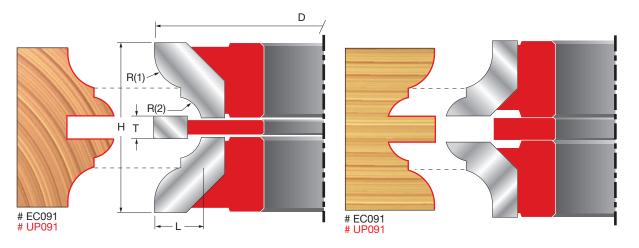
Cove & Bead Exterior Door Cutter Sets





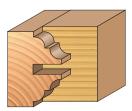
Make beautiful exterior doors with these cutter sets. Designed for the rails and stiles of standard 1-3/4" thick exterior doors, these cutters will cut both the molding cut and the coping cut. Shims included for precise adjustment.

Item Number	Overall Dia.(D)	Tenon Length(L)	Carbide Height(H)	Tenon Thickness(T)	Large Radius(R)	Small Radius(2)	Bore Dia.
EC091	2-7/8"	1/2"	1-47/64"	15/64"	21/64"	9/32"	3/4"
UP091	3-9/16"	1/2"	1-47/64"	15/64"	21/64"	9/32"	1-1/4"





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

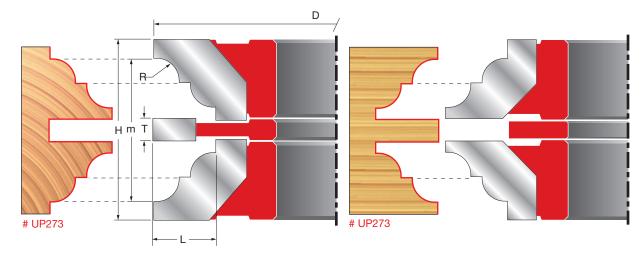


This male & female cutter set cuts a cove and bead pattern on both sides of the rail and stile. Ideal for exterior doors. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

Item Number				Tenon Thickness(T)				
UP273	3-13/16"	1-27/32"	1-29/64"	15/64"	43/64"	15/64"	1-1/4"	RC20#

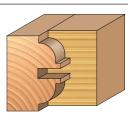
"#" Determines Bore Size See Bushing & Rub Collars for Bore Selection

Number of Wings=3 Number of Pieces=6





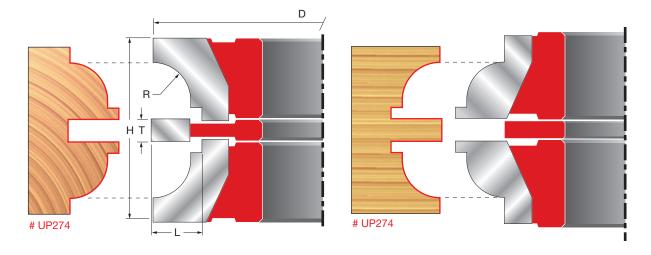
1-3/4" Stock Male & Female Exterior Door Cutter Sets



These male & female cutter sets cut a bead pattern on both sides of the rail and stile. Ideal for exterior doors. Shims are included which ensures perfect joint maintenance through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

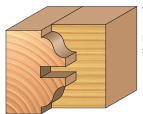
Item Number	Overall Carbide Dia.(D) Height(H)		Tenon Tenon Thickness(T) Length(L)				Rub Col. Number
EC274	2-27/32"	1-31/32"	15/64"	33/64"	25/64"	3/4"	RC-001
UP274	3-9/16"	1-31/32"	15/64"	33/64"	25/64"	1-1/4"	RC20#

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



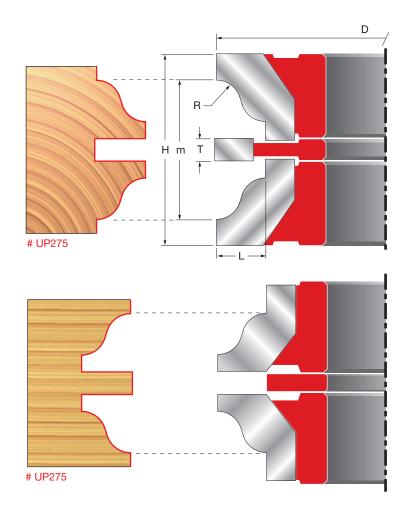






This male & female cutter set cuts an ogee pattern on both sides of the rail and stile. Ideal for exterior doors. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

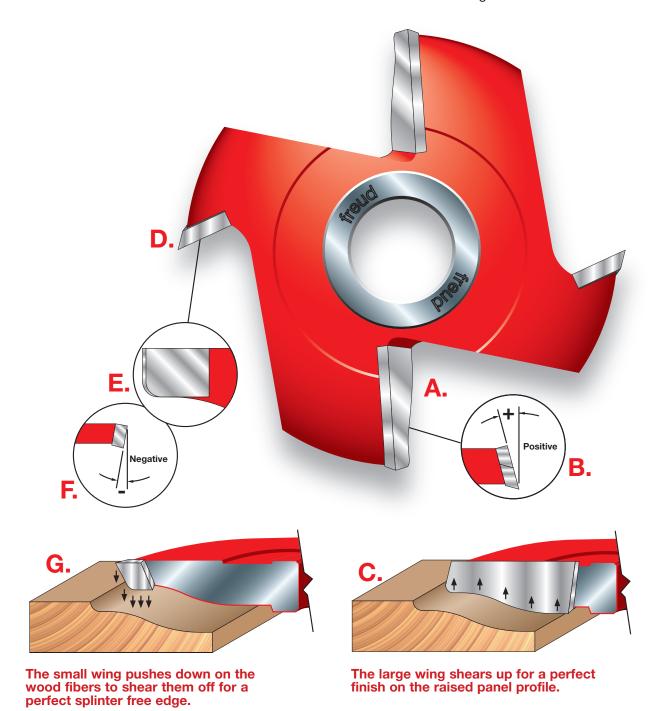
ltem Number	Overall Dia.(D)	Carbide Height(H)	Minor Height(m)	Tenon Thickness(T)	Tenon Length(L)	Large Radius(R)	Bore Dia.	Rub Collar Number
UP275	3-9/16"	2-3/64"	1-29/64"	15/64"	33/64"	1/4"	1-1/4"	RC20#
"#" Determi		er of Wings=3 er of Pieces=6						



2+2 Raised Panel Cutters

Freud's exclusive 2+2 Raised Panel Cutters produce raised panels that are glass smooth, even on cross grain with no splintering at the top of the profile edge.

Freud's engineers have set two wings to do the main cutting of the profile, while two others cut the top part of the profile. As seen in the illustration below, the large wing is set at a slightly positive hook angle (A), and a positive shear angle (B). This slices the wood from the main part of the profile (C), leaving a glass smooth finish. The two smaller wings, set at a steep positive hook angle (D), are sized so the outside diameter is slightly larger than the large wings (E). These small wings are also designed with a negative sheer angle (F). This allows the small wing to cut the vertical part of the profile with a down slicing action (G), pushing down all the wood fibers at the top of the panel and cleanly slicing them off. This leaves none of the fuzz associated with standard three-wing cutters.



2+2 Raised Panel Cutters For 5/8" Stock

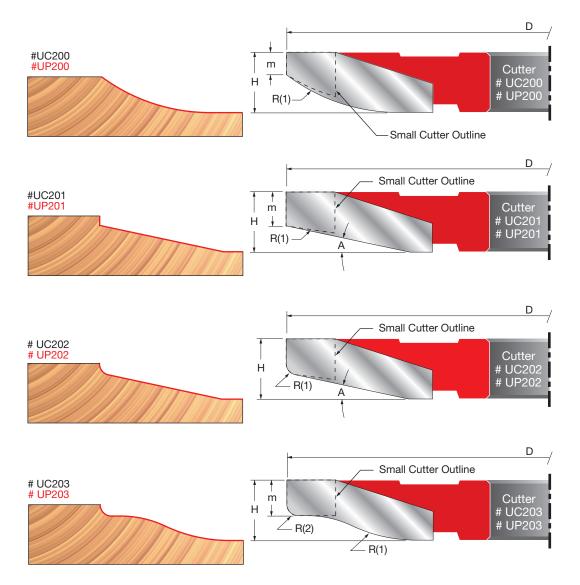


These 2+2 raised panel cutters are designed for 5/8" thick panels. All 1-1/4" bore cutters can be used with back-cutters UP230 and UP231 when using 3/4" stock. All 3/4" bore cutters can be used with back-cutters UC230 and UC231 when using with 3/4" stock.

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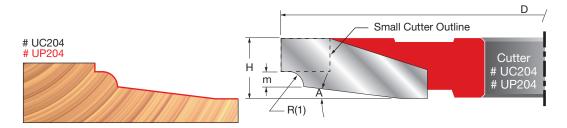
Overall Dia.(D)	Carbide Height(H)	Minor Height(m)	Large Radius(R1)	Small Radius(R2)	Angle (A)	Bore Dia.	Rub Collar Number
4-15/16"	5/8"	15/64"	1-29/32"	-	-	3/4"	RC-002
5-1/2"	5/8"	15/64"	1-29/32"	_	_	1-1/4"	RC10#
4-15/16"	5/8"	23/64"	_	_	12°	1-1/4"	RC-002
5-1/2"	5/8"	23/64"	_	_	12°	1-1/4"	RC10#
4-15/16"	33/64"	_	1/8"	_	12°	3/4"	RC-002
5-1/2"	5/8"	3/8"	1/8"	_	-	1-1/4"	RC10#
4-15/16"	5/8"	3/8"	1-9/16"	1/8"	_	3/4"	RC-002
5-1/2"	5/8"	3/8"	1-9/16"	1/8"	_	1-1/4"	RC10#
4-15/16"	5/8"	5/32"	9/16"	_	7°	3/4"	RC-002
5-1/2"	5/8"	5/32"	9/16"	_	7°	1-1/4"	RC10#
5-1/2"	5/8"	9/64"	1/8"	_	_	1-1/4"	RC10#
5-1/2"	5/8"	3/8"	9/64"	_	-	1-1/4"	RC10#
4-15/16"	5/8"	3/8"	5/32"	_	4°	3/4"	RC-002
5-1/2"	5/8"	3/8"	5/32"	_	4°	1-1/4"	RC10#
4-15/16"	5/8"	13/32"	1-5/16"	1-15/16"	28°	3/4"	RC-002
5-1/2"	5/8"	13/32"	1-5/16"	1-15/16"	28°	1-1/4"	RC10#
	Dia.(D) 4-15/16" 5-1/2" 4-15/16" 5-1/2" 4-15/16" 5-1/2" 4-15/16" 5-1/2" 5-1/2" 4-15/16" 5-1/2" 4-15/16" 5-1/2" 4-15/16"	Dia.(D) Height(H) 4-15/16" 5/8" 5-1/2" 5/8" 4-15/16" 5/8" 5-1/2" 5/8" 4-15/16" 33/64" 5-1/2" 5/8" 4-15/16" 5/8" 5-1/2" 5/8" 4-15/16" 5/8" 5-1/2" 5/8" 5-1/2" 5/8" 4-15/16" 5/8" 4-15/16" 5/8" 4-15/16" 5/8" 4-15/16" 5/8"	Dia.(D) Height(H) Height(m) 4-15/16" 5/8" 15/64" 5-1/2" 5/8" 23/64" 4-15/16" 5/8" 23/64" 5-1/2" 5/8" 23/64" 4-15/16" 33/64" - 5-1/2" 5/8" 3/8" 4-15/16" 5/8" 3/8" 5-1/2" 5/8" 3/8" 4-15/16" 5/8" 5/32" 5-1/2" 5/8" 5/32" 5-1/2" 5/8" 9/64" 5-1/2" 5/8" 3/8" 4-15/16" 5/8" 3/8" 4-15/16" 5/8" 3/8" 4-15/16" 5/8" 3/8" 4-15/16" 5/8" 3/8"	Dia.(D) Height(H) Height(m) Radius(R1) 4-15/16" 5/8" 15/64" 1-29/32" 5-1/2" 5/8" 23/64" - 5-1/2" 5/8" 23/64" - 4-15/16" 33/64" - 1/8" 5-1/2" 5/8" 3/8" 1/8" 4-15/16" 5/8" 3/8" 1-9/16" 5-1/2" 5/8" 3/8" 1-9/16" 5-1/2" 5/8" 3/8" 1-9/16" 4-15/16" 5/8" 5/32" 9/16" 5-1/2" 5/8" 5/32" 9/16" 5-1/2" 5/8" 9/64" 1/8" 5-1/2" 5/8" 3/8" 9/64" 4-15/16" 5/8" 3/8" 5/32" 5-1/2" 5/8" 3/8" 5/32" 5-1/2" 5/8" 3/8" 5/32" 4-15/16" 5/8" 3/8" 5/32" 4-15/16" 5/8" 3/8" 1-5/16"	Dia.(D) Height(H) Height(m) Radius(R1) Radius(R2) 4-15/16" 5/8" 15/64" 1-29/32" - 5-1/2" 5/8" 15/64" 1-29/32" - 4-15/16" 5/8" 23/64" - - 5-1/2" 5/8" 23/64" - - 4-15/16" 33/64" - 1/8" - 5-1/2" 5/8" 3/8" 1/8" - 4-15/16" 5/8" 3/8" 1-9/16" 1/8" 5-1/2" 5/8" 3/8" 1-9/16" - 5-1/2" 5/8" 5/32" 9/16" - 5-1/2" 5/8" 5/32" 9/16" - 5-1/2" 5/8" 3/8" 1/8" - 5-1/2" 5/8" 3/8" 9/64" - 4-15/16" 5/8" 3/8" 5/32" - 5-1/2" 5/8" 3/8" 5/32" - 5-1/2" 5/8"	Dia.(D) Height(H) Height(m) Radius(R1) Radius(R2) (Å) 4-15/16" 5/8" 15/64" 1-29/32" - - 5-1/2" 5/8" 15/64" 1-29/32" - - 4-15/16" 5/8" 23/64" - - 12° 5-1/2" 5/8" 23/64" - - 12° 4-15/16" 33/64" - 1/8" - 12° 5-1/2" 5/8" 3/8" 1/8" - - 4-15/16" 5/8" 3/8" 1-9/16" 1/8" - 5-1/2" 5/8" 3/8" 1-9/16" 1/8" - 4-15/16" 5/8" 5/32" 9/16" - 7° 5-1/2" 5/8" 5/32" 9/16" - 7° 5-1/2" 5/8" 3/8" 9/64" - - 4-15/16" 5/8" 3/8" 5/32" - 4° 5-1/2" 5/8"	Dia.(D) Height(H) Height(m) Radius(R1) Radius(R2) (A) Dia. 4-15/16" 5/8" 15/64" 1-29/32" - - 3/4" 5-1/2" 5/8" 15/64" 1-29/32" - - 1-1/4" 4-15/16" 5/8" 23/64" - - 12° 1-1/4" 5-1/2" 5/8" 23/64" - - 12° 1-1/4" 4-15/16" 33/64" - 1/8" - 12° 3/4" 5-1/2" 5/8" 3/8" 1/8" - - 1-1/4" 4-15/16" 5/8" 3/8" 1-9/16" 1/8" - 1-1/4" 4-15/16" 5/8" 3/8" 1-9/16" 1/8" - 1-1/4" 4-15/16" 5/8" 5/32" 9/16" - 7° 3/4" 5-1/2" 5/8" 5/32" 9/16" - 7° 1-1/4" 5-1/2" 5/8" 3/8" 9/64"

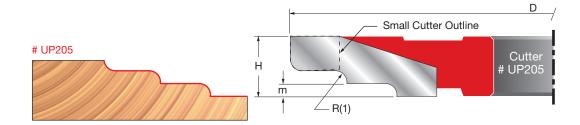
"#" Determines Bore Size See Bushing & Rub Collars for Bore Selection Number of Wings= 2+2

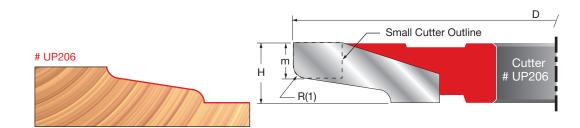


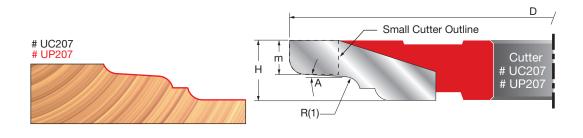


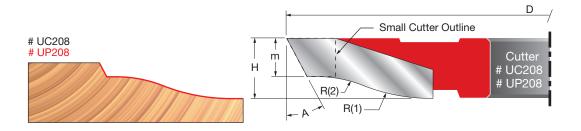
2+2 Raised Panel Cutters For 5/8" Stock (Continued)









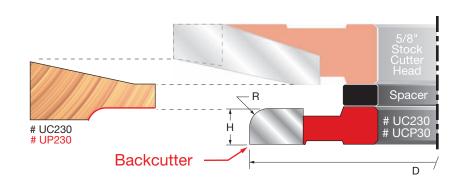


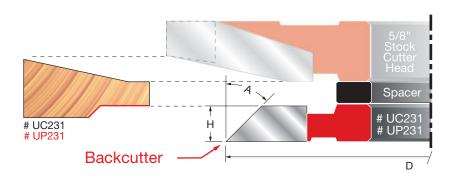
(Continued) Backcutter For Double Raised Panels



Freud's back-cutters are designed to be used with Freud's 2+2 Raised Panel Cutters when cutting 3/4" stock. Use the 1-1/4" bore cutters with Panel Cutters UP200 through UP208. Use 3/4" bore cutters with Panel Cutters UC200 through UC208. These cutters leave a decorative profile on the back side of the panel making the panel flush with both the front and back of the rails and stiles.

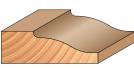
	ltem Number	Overall Dia.(D)	Carbide Height(H)	Large Radius(R)	Angle	Bore Diameter
NEW	➤ UC230	3-11/32"	3/8"	13/64"	-	3/4"
	UP230	3-15/16"	3/8"	13/64"	_	1-1/4"
NEW	■ UC231	3-45/64"	3/8"	_	45°	3/4"
	UP231	4-9/32"	3/8"	_	45°	Number of Wings = 3







2+2 Raised Panel Cutters For 3/4" Stock



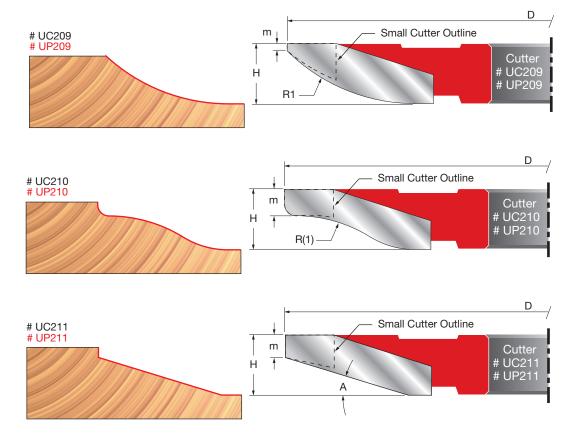
These 2+2 raised panel cutters are designed for 3/4" thick panels. The small cutter, with opposite shear angle, will push wood fibers down and shear them off leaving a crisp edge at the top of the panel, even on cross grain.

	Item Number	Overall Dia.(D)	Carbide Height(H)	Minor Height(m)	Large Radius(R1)	Small Radius(R2)	Angle (A)	Bore Dia.	Rub Collar Number
•	UC209	4-15/16"	43/64"	1/8"	1-57/64"	-	-	3/4"	RC-002
	UP209	51/2"	5/8"	5/64"	1-57/64"	_	-	1-1/4"	RC10#
	UC210	4-15/16"	23/32"	23/64"	1-15/32"	1/8"	-	3/4"	RC-002
	UP210	5-1/2"	5/8"	9/32"	1-15/32"	1/8"	-	1-1/4"	RC10#
	UC211	4-15/16"	5/8"	15/64"	_	_	17°	3/4"	RC-002
	UP211	5-1/2"	5/8"	15/64"	_	_	17°	1-1/4"	RC10#
	UC212	4-15/16"	17/32"	-	13/64"	_	13°	3/4"	RC-002
	UP212	5-1/2"	5/8"	-	13/64"	_	13°	1-1/4"	RC10#
	UC213	4-15/16"	11/16"	21/64"	1-31/32"	1-3/8"	23°	3/4"	RC-002
	UP213	5-1/2"	5/8"	9/32"	1-31/32"	1-3/8"	23°	1-1/4"	RC10#
_	UP214	5-1/2"	5/8"	21/64"	13/64"	1/8"	-	1-1/4"	RC10#
NEW	UC215	4-15/16"	5/8"	15/64"	13/64"	_	10°	3/4"	RC-002
	UP215	5-1/2"	5/8"	15/64"	13/64"	_	10°	1-1/4"	RC10#
	UP216	5-1/2"	5/8"	1/4"	9/64"	_	-	1-1/4"	RC10#
	UP217	5-1/2"	5/8"	15/64"	11/64"	9/64"	7.5°	1-1/4"	RC10#
	UP218	5-1/2"	5/8"	1/4"	5/32"	9/64"	-	1-1/4"	RC10#
	UP219	5-1/2"	5/8"	9/32"	1/8"	_	-	1-1/4"	RC10#
_	UP220	5-1/2"	5/8"	15/64"	9/32"	5/32"	-	1-1/4"	RC10#
NEW	UC221	4-15/16"	5/8"	15/64"	9/64"	1/8"	4°	3/4"	RC-002
	UP221	5-1/2"	5/8"	15/64"	9/64"	1/8"	4°	1-1/4"	RC10#
	UP222	5-1/2"	5/8"	15/64"	1/8"	_	-	1-1/4"	RC10#
NEW	UC223	4-15/16"	5/8"	13/64"	5/32"	1/8"	10°	3/4"	RC-002
	UP223	5-1/2"	5/8"	13/64"	5/32"	1/8"	10°	1-1/4"	RC10#

[&]quot;#" Determines Bore Size

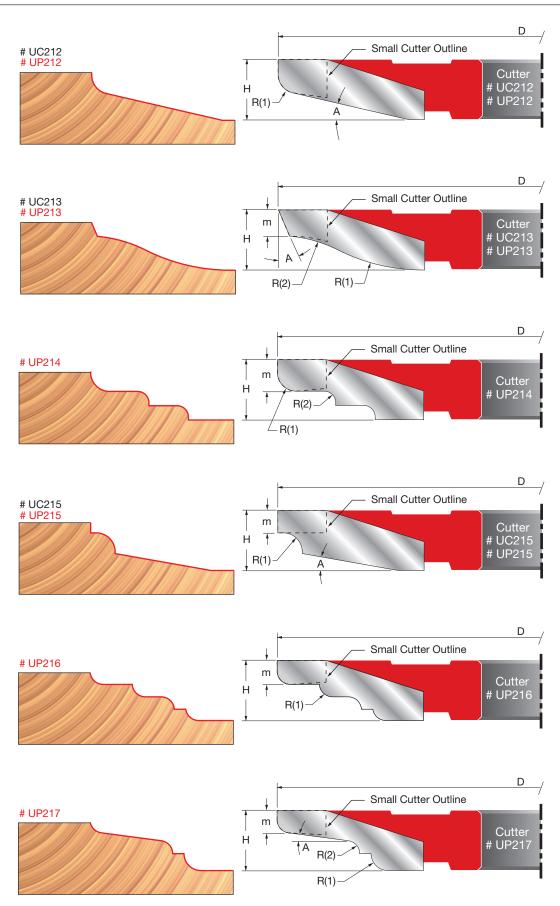
See Bushing & Rub Collars for Bore Selection

Number of Wings= 2+2



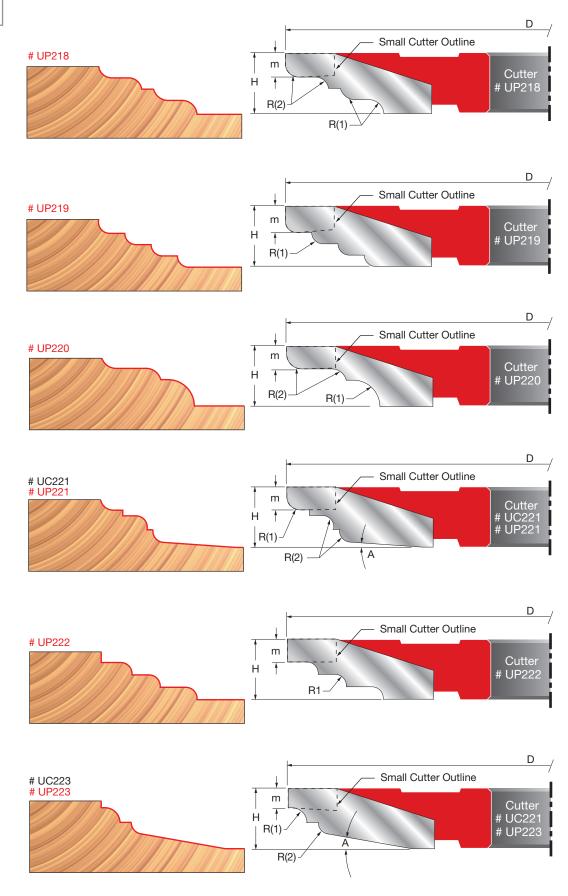
(Continued) 2+2 Raised Panel Cutters For 3/4" Stock







(Continued) 2+2 Raised Panel Cutters For 3/4" Stock



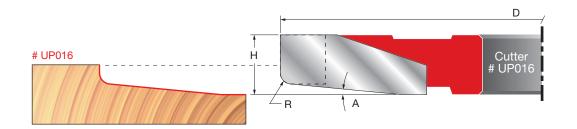
2+2 Raised Panel Cutter For Double-Sided Panels





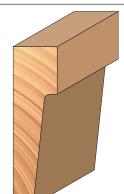
This 2+2 Raised Panel cutter is ideal for double-sided raised panel interior and exterior doors.

Item Number	Overall Dia.(D)	Carbide Height(H)	Large Radius(R)	Angle	Bore Diameter
UP016	5-1/2"	5/8"	1/8"	6°	1-1/4"
				Numb	er of Wings = 2+2



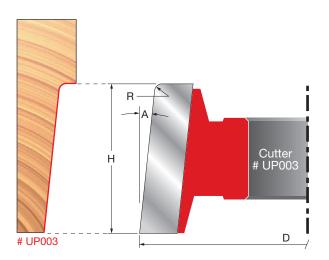
Vertical Raised Panel Cutter





Freud's Vertical Raised Panel Cutters are designed to provide a full profile reveal, while keeping cutter diameter to a minimum. This reduces the stress on the spindle and will work well on lower powered shapers.

Item Number	Overall Dia.(D)	Carbide Height(H)	Large Radius(R)	Angle	Bore Diameter
UP003	3-9/16"	1-57/64"	5/64"	6°	1-1/4"
				Nu	mber of Wings = 3



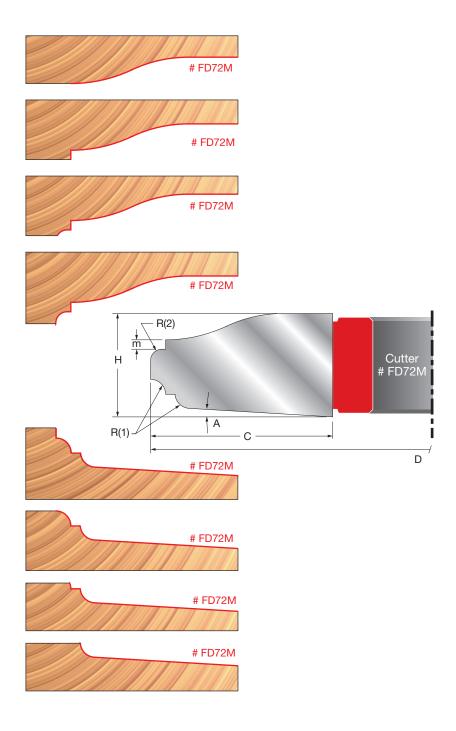


The "Duplex" Multi-Profile Raised Panel Cutter



The Duplex Raised Panel Cutter has the flexibility to create custom raised panel profiles with just one cutter. It can create eight different profiles using only one pass. Different profiles can be obtained by running the stock over or under the head and changing the height of the cutter.

					Large Radius(R1)			Bore Dia.
FD72M	5-29/32"	1-7/8"	1-5/64"	3/32"	5/32"	1/8"	3.5°	1-1/4"



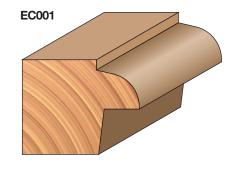


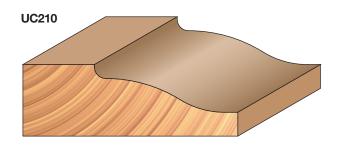
This one box contains all the cutters needed to make raised panel doors on a 3/4" shaper. Included is a set of male and female rail and stile door cutters for making door frames, a door lip cutter for inset doors, a glue joint cutter for gluing up panels, and a 2+2 raised panel cutter with our most popular profile. All the cutters come packaged in a wooden storage case with necessary shims included.

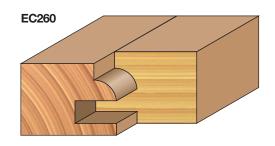
UC900 Raised Panel Door System

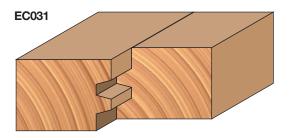
Cutter Type	Item Number	Overall Diameter		Carbide Height	Tenon Thickness	Page Number
Door Lip Cutter	EC001	2-7/8"	29/64"	1-1/4"	-	284
Rev. Glue Joint	EC031	2-7/8"	5/32"	1-17/64"	-	279
Raised Panel	UC210	4-15/16"	-	23/32"	15/64"	306
Stile & Rail*	EC260	2-7/16"	15/64"	1"	15/64"	292
	,	Tonon Long	th - 7/16"			

Tenon Length = 7/16











Futura 2000 Custom Door Shop Cutter Set

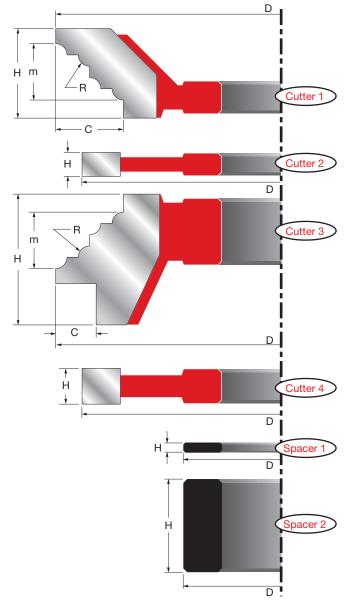


This set of cutters can shape doors from a wide range of stock. Stock from 5/8" to 2-1/8" can easily be shaped with the Futura 2000.

Each set contains four cutters: two two-wing profile cutters, one 1/4" four-wing grooving cutter, and one 3/8" four-wing grooving cutter. The profile cutters are reversed to cut the mating stile and rail profiles. The 1/4" and 3/8" groovers are stackable to cut mortises 1/4", 3/8", and 5/8" wide.

Also included are shims and spacers to adjust the cutters so they produce the precise tenon thickness desired to compensate for any change that occurs when the cutters are face ground.

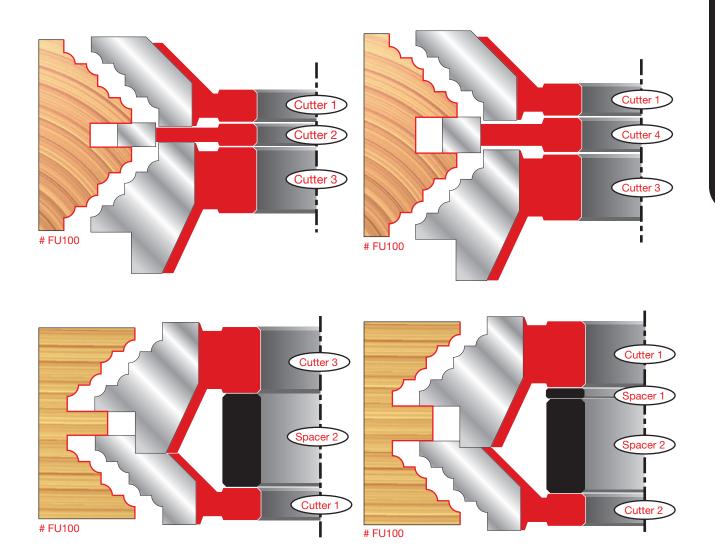
The cutters come in a sturdy storage case. All cutters are 1-1/4" bore but may be bushed down for any spindle size down to 3/4".



Futura 2000 Custom Door Shop Cutter Set (Continued)



Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Minor Height(m)	Tenon Length(L)	Large Radius(R1)	Number of Wings	Bore Dia.
Cutter 1	4-23/32"	45/64"	15/16"	19/32"	_	1/8"	2	1-1/4"
Cutter 2	4-11/16"	_	1/4"	_	-	_	4	1-1/4"
Cutter 3	4-23/32"	_	1-3/8"	19/32"	27/64"	1/8"	2	1-1/4"
Cutter 4	4-11/64"	-	3/8"	_	-	_	4	1-1/4"
Spacer 1	2-3/64"	_	1/8"	_	_	_	_	1-1/4"
Spacer 2	2-3/64"	-	63/64"	_	_	_	_	1-1/4"







Cassette 65

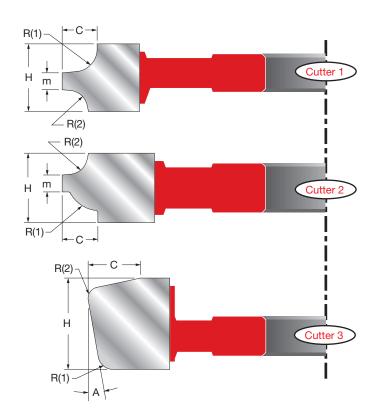
These cutters work together to produce over 65 different moldings including: beads, ogees, half rounds, corner rounds, rabbets, coves, grooves, crown molding, chair rail, and many more. By changing the height of the cutters, number of passes, and fence position, the number of possible moldings is endless. This set comes with three three-wing carbide tipped profile cutters, spacers and shims, all packed in a sturdy wooden storage case. For 3/4" bore order CS71MAA3, and for 1-1/4" bore order CS71MBA3.

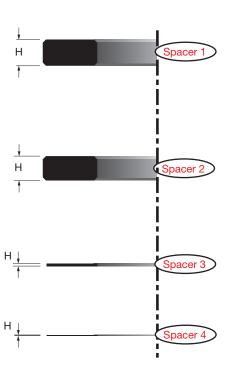
Item Number: CS71MAA3 (3/4" Bore)

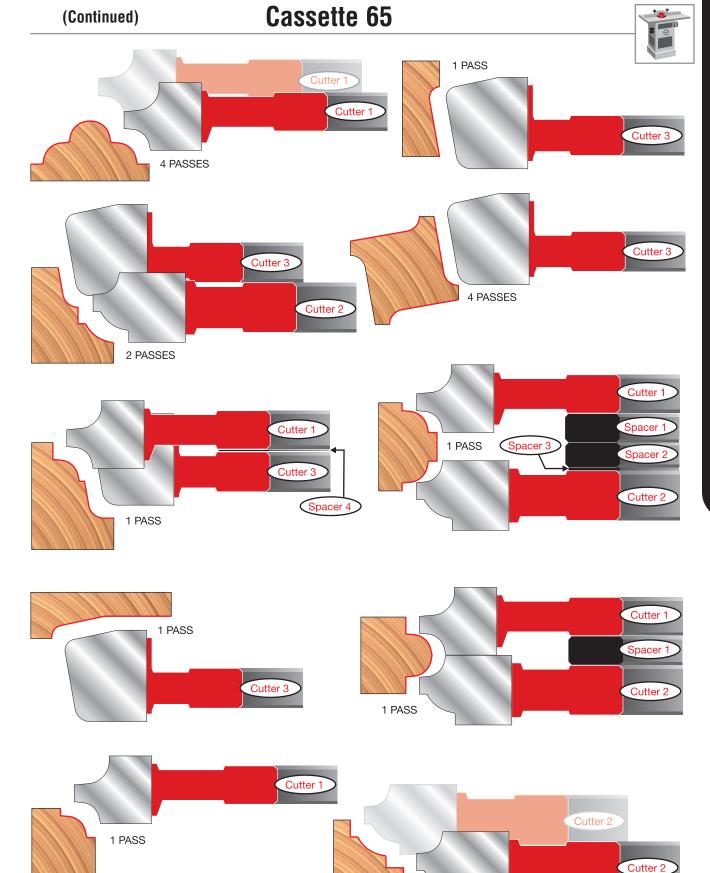
Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Minor Height(m)	Large Radius(R1)	Small Radius(R2)	Angle (A)
Cutter 1	3-15/16'	23/64"	45/64"	3/16"	15/64"	13/64"	-
Cutter 2	3-15/16'	3/8"	47/64"	3/16"	23/64"	13/64"	-
Cutter 3	3-13/32	35/64"	61/64"	-	5/32"	1/8"	10°
Spacer 1	1-13/32	-	19/64"	-	-	-	-
Spacer 2	1-13/32	_	17/64"	-	_	-	-
Spacer 3	1-13/32	' -	3/64"	-	-	-	-
Spacer 4	1-13/32	_	1/64"	-	_	– Number of \	– Wings = 3

Item Number: CS71MBA3 (1-1/4" Bore)

				`	,		
Item Number	Overall Dia.(D)	Cut Depth(C)	Carbide Height(H)	Minor Height(m)	Large Radius(R1)	Small Radius(R2)	Angle (A)
Cutter 1	5-1/2"	23/64"	45/64"	3/16"	15/64"	13/64"	-
Cutter 2	5-1/2"	3/8"	47/64"	3/16"	23/64"	13/64"	-
Cutter 3	4-31/32"	35/64"	61/64"	_	5/32"	1/8"	10°
Spacer 1	2-3/8"	_	19/64"	-	_	_	-
Spacer 2	2-3/8"	_	17/64"	_	_	_	_
Spacer 3	2-3/8"	_	3/64"	-	_	_	-
Spacer 4	2-3/8"	_	1/64"	_	_	_	_







2 PASSES



The Woodworking Box



These complete sets of four carbide tipped profile cutters will make many moldings and rails and stiles for raised panel doors. By combining different cutters, changing height and fence position, and making multiple passes the cutters can produce many different profiles. Profiles include: beads, ogees, half rounds, corner rounds, rabbets, coves, grooves, crown molding, chair rail, and many more. This set will also make rail and stile doors both in 3/4" stock and 1" stock with interlocking profiles.

This set is so versatile that it can make a complete raised panel door including the door lip. Set comes with four carbide tipped three-wing profile cutters, two spacers and an assortment of shims for precise cut adjustment. All of this comes in a sturdy wooden storage case.

Order WB101 for 3/4" bore, and WB102 for 1-1/4" bore.

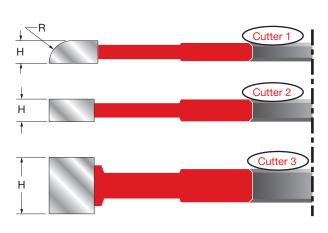
Item Number: WB101 (3/4" Bore)

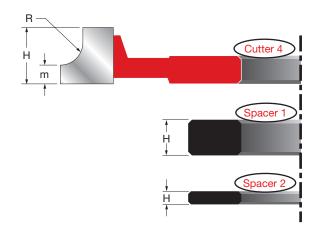
	` ,			
Overall Dia.(D)	Carbide Height(H)	Minor Height(m)	Large Radius(R)	Rub Collar Number
4-1/8"	15/64"	-	15/64"	RC601
4-1/8"	15/64"	-	-	RC601
4-1/8"	19/32"	-	-	RC601
3-21/32"	19/32"	13/64"	15/64"	RC601
1-37/64"	3/8"	_	_	RC601
1-37/64"	9/64"	_	-	RC601
	Dia.(D) 4-1/8" 4-1/8" 4-1/8" 3-21/32" 1-37/64"	Dia.(D) Height(H) 4-1/8" 15/64" 4-1/8" 15/64" 4-1/8" 19/32" 3-21/32" 19/32" 1-37/64" 3/8"	Dia.(D) Height(H) Height(m) 4-1/8" 15/64" — 4-1/8" 15/64" — 4-1/8" 19/32" — 3-21/32" 19/32" 13/64" 1-37/64" 3/8" —	Dia.(D) Height(H) Height(m) Radius(R) 4-1/8" 15/64" - 15/64" 4-1/8" 15/64" - - 4-1/8" 19/32" - - 3-21/32" 19/32" 13/64" 15/64" 1-37/64" 3/8" - -

Number of Wings = 3

Item Number: WB102 (1-1/4" Bore)

Item Number	Overall Dia.(D)	Carbide Height(H)	Minor Height(m)	Large Radius(R)	Rub Collar Number
Cutter 1	5-1/2"	15/64"	_	3/16"	RC701
Cutter 2	5-1/2"	15/64"	_	_	RC701
Cutter 3	5-1/2"	19/32"	_	_	RC701
Cutter 4	5-1/32"	19/32"	13/64"	15/64"	RC701
Spacer 1	2-3/8"	3/8"	_	_	RC701
Spacer 2	2-3/8"	9/64"	_	_	RC701





The Woodworking Box



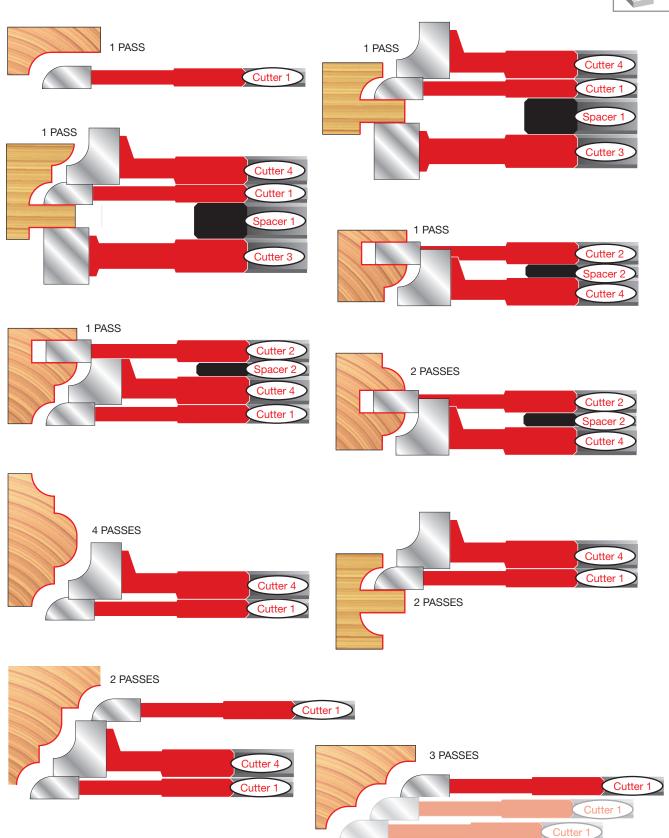




317









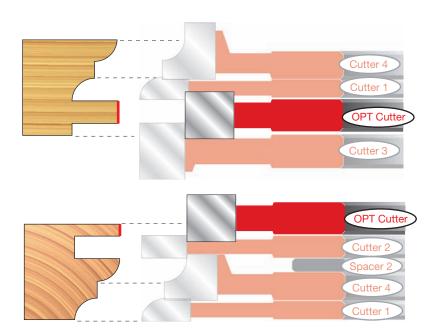


Optional Cutters For Woodworking Box

These optional cutters allow the Woodworking Box to be set up to fully clean the edge of the material while shaping. This eliminates the need for jointing the stock prior to shaping.

Item Number	Overall Dia.(D)	Carbide Height(H)	Number of Pieces	Number of Wings	Bore Diameter	Rub Collar Number
OPT101	3-3/16"	25/64"	1	3	3/4"	RC601
OPT102	4-9/16"	25/64"	1	3	1-1/4"	RC701





Bushing Selection

3/4". Single cutters require the use of a pair of flange bushings in the appropriate bore in order to lock the cutter onto the spindle. Multiple cutter stacks such as stile and rail cutter sets require flange bushings as well as center cutter bushings.

Freud Shaper Cutters can be fitted with bushings to allow the use of 1-1/4" bore cutters on spindles as small as

To determine which bushings are required, first determine the total thickness of the stacked cutter hubs, which is often equal to carbide height, and subtract the height of both flange bushings. The result is the maximum total height of center bushings required. Select bushing sizes that equal most nearly to this amount.

IMPORTANT: Never use center bushings that will equal or exceed the maximum total center bushing height.

Note that the Performance System® Stile and Rail cutter sets and Raised Panel cutter sets include center cutter bushings for 3/4" spindles and Freud 3/4" bore cutters include all necessary bushings for use on 1/2" spindles.

Example of Bushing UP275 to 3/4" Spindle:

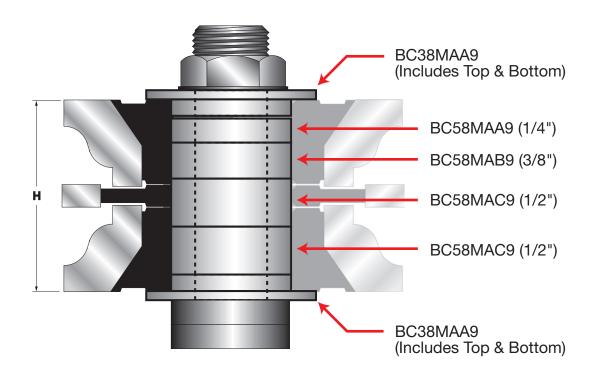
The carbide height of the UP275 is 23/64". After subtracting the height of the BC38MAA9 flange bushings, the maximum center bushing height is obtained:

23/64" - 11/64" - 11/64" = 145/64"

By choosing one BC58MAA9, one BC58MAB9 and two BC58MAC9 center bushings the total center bushing height is:

 $1/4^{\text{"}} + 3/8^{\text{"}} + 1/2^{\text{"}} + 1/2^{\text{"}} = 15/8^{\text{"}}.$

This will leave a space of only 1/16" and allow the cutters to be securely tightened on the spindle.

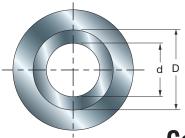






Flange Bushings

Freud's Standard Flange Bushings are manufactured to the highest precision to ensure a cut equal to that of the cutter without the bushing. Be sure to clean the cutter, bushing, and spindle prior to assembly.

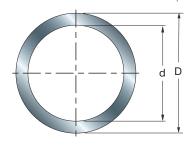


Item Number	Outside Dia.(D)	Height (H)	Bore Diameter(d)
BC20MAA9	1-1/4"	11/64"	20mm
BC30MAA9	1-1/4"	11/64"	30mm
BC36MAA9	1-1/4"	13/64"	1-1/8"
BC37MAA9	1-1/4"	15/64"	1"
BC38MAA9	1-1/4"	11/64"	3/4"
EC000	3/4"	3/16"	1/2"

Center Cutter Bushings



Freud's Center Cutter Bushings are manufactured to the highest precision to ensure a cut equal to that of the cutter without the bushing. These are designed for the center cutters of the male and female rail and stile sets. Be sure to clean the cutter, bushing, and spindle prior to assembly.



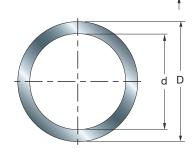
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Item Number	Outside Dia.(D)	Height (H)	Bore Diameter(d)
BC56MAA9	1-1/4"	1/4"	1-1/8"
BC56MAB9	1-1/4"	3/8"	1-1/8"
BC56MAC9	1-1/4"	1/2"	1-1/8"
BC57MAA9	1-1/4"	1/4"	1"
BC57MAB9	1-1/4"	3/8"	1"
BC57MAC9	1-1/4"	1/2"	1"
BC58MAA9	1-1/4"	1/4"	3/4"
BC58MAB9	1-1/4"	3/8"	3/4"
BC58MAC9	1-1/4"	1/2"	3/4"

Cassette 65 Bushings



Use these bushings sets with the Cassette 65 Cutter Set. Be sure to clean the cutter, bushing, and spindle prior to assembly.

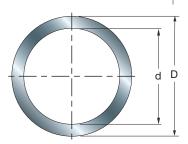


Item Number	Outside Dia.(D)	Height (H)	Number of Pieces	Bore Dia.(d)
BS71MAA9	1-1/4"	15/64", 9/32", & 3/8"	3	1-1/8"
BS71MAB9	1-1/4"	15/64", 9/32", & 3/8"	3	1"
BS71MBA9	3/4"	15/64", 9/32", & 3/8"	3	5/8"
BS71MBB9	3/4"	15/64", 9/32", & 3/8"	3	1/2"
BS71M030	1-1/4"	15/64", 9/32", & 3/8"	3	30mm

Woodworking Box Bushings



These bushings sets are designed for use with the Woodworking Box Cutter Set. Be sure to clean the cutter, bushing, and spindle prior to assembling.

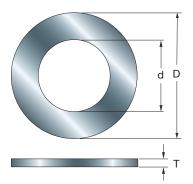


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ltem Number	Outside Dia.(D)	Height (H)	Bore Diameter(d)
BS20MAA9	1-1/4"	3/16" (2), 15/64", 9/32", & 11/32"	20mm
BS30MAA9	1-1/4"	3/16" (2), 15/64", 9/32", & 11/32"	30mm
BS72MAA9	1-1/4"	3/16" (2), 15/64", 9/32", & 11/32"	1-1/8"
BS72MAB9	1-1/4"	3/16" (2), 15/64", 9/32", & 11/32"	1"
BS72MBA9	3/4"	3/16" (2), 15/64", 9/32", & 11/32"	5/8"
BS72MBB9	3/4"	3/16" (2), 15/64", 9/32", & 11/32"	1/2"

Shim Sets





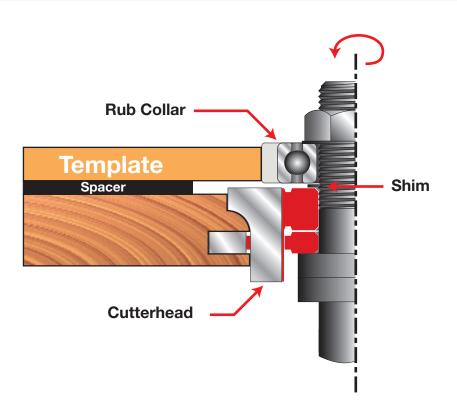
easy solution. These shims allow adjustment of your cutter spacing by as little as .004"(1/250") up to .370".

Precision Shim Sets

	Item	Arbor	Outside		Numb	per of Each	Thickness			
	Number		Dia.(D)	.004	.008	.012	.020	.040	.142	.370
Α	N73MEA9	1-1/4"	1-7/8"	1	1	1	1	1	1	1
Α	N73MFA9	3/4"	1-5/16"	1	1	1	1	1	1	1

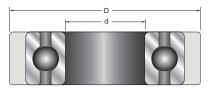
Rub Collar Setup & Selection Chart







Ball Bearing Rub Collars



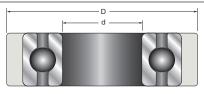
Freud's Ball Bearing Rub Collars are made using precision industrial ball bearings, and are ideal for doing template work or making cathedral

Item Number	Outside Dia.(D)	Bore Dia.(d)
RC-001	48mm	3/4"
RC-002	1-3/4"	3/4"
RC-003	72mm	3/4"
RC101	2-1/4"	1-1/4"
RC102	2-1/4"	1-1/8"
RC105	2-1/4"	1/2"
RC201	2-1/2"	1-1/4"
RC202	2-1/2"	1-1/8"
RC205	2-1/2"	1/2"
RC301	2-3/4"	1-1/4"
RC302	2-3/4"	1-1/8"

Item Number	Outside Dia.(D)	Bore Dia.(d)
RC305	2-3/4"	1/2"
RC401	3"	1-1/4"
RC402	3"	1-1/8"
RC405	3"	1/2"
RC501	3-1/2"	1-1/4"
RC502	3-1/2"	1-1/8"
RC505	3-1/2"	1/2"
RC601	3-1/4"	3/4"
RC701	4-9/16"	1-1/4"
RSC-3	85mm	1-1/4"



Ball Bearing Rub Collars Reference Chart



Item Number	Rub Collar Number
EC091	RC-001
EC140	RC-003
EC141	RC-003
EC142	RC-003
EC143	RC-003
EC144	RC-003
EC146	RC-003
EC260	RC-001
EC266	RC-001
EC270	RC-001
EC274	RC-001
OPT101	RC601
OPT102	RC701
RP1000	RC10#
RP2000	RC10#
RS1000	RSC-#
RS2000	RSC-#
UC200	RC-002
UC201	RC-002
UC202	RC-002
UC203	RC-002
UC204	RC-002
UC207	RC-002
UC208	RC-002
UC209	RC-002
UC210	RC-002
UC211	RC-002
UC212	RC-002
UC213	RC-002
UC215	RC-002

Item Number	Rub Collar Number
UC221	RC-002
UC223	RC-002
UP016	RC10#
UP140	RC50#
UP141	RC50#
UP142	RC50#
UP143	RC50#
UP144	RC50#
UP145	RC50#
UP146	RC50#
UP147	RC50#
UP148	RC50#
UP149	RC50#
UP150	RC50#
UP151	RC50#
UP152	RC50#
UP153	RC50#
UP200	RC10#
UP201	RC10#
UP202	RC10#
UP203	RC10#
UP204	RC10#
UP205	RC10#
UP206	RC10#
UP207	RC10#
UP208	RC10#
UP209	RC10#
UP210	RC10#
UP211	RC10#
UP212	RC10#

ltem Number	Rub Collar Number
UP213	RC10#
UP214	RC10#
UP215	RC10#
UP216	RC10#
UP217	RC10#
UP218	RC10#
UP219	RC10#
UP220	RC10#
UP221	RC10#
UP222	RC10#
UP223	RC10#
UP260	RC30#
UP261	RC30#
UP262	RC30#
UP263	RC30#
UP264	RC30#
UP265	RC30#
UP266	RC30#
UP267	RC30#
UP268	RC30#
UP269	RC20#
UP270	RC20#
UP272	RC20#
UP273	RC20#
UP274	RC20#
UP275	RC20#
WB101	RC601
WB102	RC701

See previous page for bore selection "#" determines bore size



Freud manufactures a wide assortment of quality power tools and accessories to suit any woodworking project. Freud power tools have gained recognition from several of the industry's trade publications, including the coveted "Top 10 Innovative Tool" award from Workbench for our FJ85K Heavy Duty Variable Speed Jigsaw and the prestigious "Best Buy" award from American Woodworker magazine for our JS100A Biscuit Joiner.



FT1700VCEK 2-1/4 HP Variable Speed Router

Freud's Ultimate 2-1/4 HP Variable Speed Fixed Base Router features above-the-table micro-adjustability for quick, accurate adjustments. The FT1700VCEK also features an extended spindle shaft with through the base locking system for easy, safe above table bit changes. The router also features a powerful 13 amp motor with soft start to reduce start up torque. The electronic cruise control system ensures that the speed remains constant under varying loads. The electronic regulator and power switch are sealed from dust and debris, so it is as durable as it is versatile!



• FT1700VCEK 2-1/4 HP Router

- Above-table micro-adjustability accurate to 1/128" increments for quick, easy, and precise adjustments.
- Extended spindle shaft with through base locking feature for fast, easy, bit changes above the table.
- Powerful 13 amp motor for extreme strength and durability.
- 10,000-23,000 RPM with soft-start for reduced start up torque.
- Unique ergonomic design for better balance and control when cutting .
- Sealed electronic regulator and power switch for superior protection from dust and debris.
 Includes 1/4" and 1/2" collet and above table height adjustment knob.





FT1700VCEK
Amps:
Watts:
Speed Controls:Electronic Soft Start Collet Diameter:
Fixed Base Diameter:6" Weight:7.5 lbs
· ·



FT1702VCEK 2-1/4 HP Router with 2 Base Combo Kit

- Above-table micro-adjustability accurate to 1/128" increments for quick, easy, and precise adjustments.
- Extended spindle shaft with through base locking feature for fast, easy, bit changes above the table (fixed base only).
- Powerful 13 amp motor for extreme strength and durability.
- 10,000-23,000 RPM with soft-start for reduced start up torque.
- Unique ergonomic design for better balance and control when cutting.
- Sealed electronic regulator and power switch for superior protection from dust and debris.
- Includes 2 bases, one fixed base and one plunge base.
- Includes 1/4" and 1/2" collets and above table height adjustment knob.





Plunge base available separately as item #FT1760.

Simple above the table

micro-adjustment

capability.

FT3000VCE 3-1/4 HP Variable Speed Plunge Router

Boasting a powerful 15 amp motor, Freud's newest plunge router is a heavy-duty champ—but this is no ordinary full-sized router. The FT3000VCE also features above table height adjustments and bit changes. The height adjustment system is accessible through the base for quick, accurate adjustments. The FT3000VCE also features an extended spindle shaft with through the base locking system for easy, safe above table bit changes. The unit also features soft-start to reduce start up torque and the electronic cruise control system ensures that the speed remains constant under varying loads. The power switch and electronic regulator are sealed from dust and debris for extreme durability.



Easy one hand above

the table bit change.

Base includes 4

position rotating turret

stop, and 3-5/8"

opening for large diameter bits.

FT2200E 3-1/4 HP Variable Speed Plunge Router



Freud's FT2200E, the Variable Speed 3-1/4 HP Plunge Router, can serve as a hand held router, and when mounted under a table, the router can take the place of a more expensive spindle shaper. It has a powerful 15 amp motor, and electronic speed control with Soft Start that adjusts the output RPM from 10,000 to 22,500 RPM. The electronic speed control maintains a more constant torque and RPM than most other routers. The 1-3/8" long collet is one of the longest in the industry. Micro-Adjustment Depth Control makes accurate vertical settings quick and easy.

Other features include: Freud's Sliding Shaft Lock, Large On/Off Switch, Convenient Plunge Lock, Quick Release Depth Stop, 1/4" Collet Reducer, 3 Position Depth Stop Turret.

FT2200E packaged without edge guide FT2200EP packaged with edge guide.



Electronic Speed Control maintains constant speed under load.

FT2200E	
Amps: Volts: Watts: RPM Range:	120 1,800 0 - 22,500 Soft Start /4" & 1/2" 2-9/16" 6-9/16"

FT750T 1 HP Laminate Trimmer

Freud's FT750T 1 HP Laminate Trimmer Router with it's 6.6 amp, 27,000 RPM motor cuts easily through the toughest woods and laminates. The FT750T micro-adjustable base allows for easy adjustment and accuracy along with its lightweight design for extended use with out fatigue.





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Precision machined fixed base with micro-adjustability for better accuracy.

FT750T				
Amps: 6.5 Volts: 120 Watts: 750 RPM Range: 27,000 Collet Diameter: 1/4" Base Diameter: 3-7/8" x 2-13/16" Weight: 4.4 lbs				



Ideal for: Trimming, Edge Molding, Hinge Mortising, Dovetailing, Grooving, and Sign Making.



freud

Router Accessories



FT2010 Edge Guide

This edge guide fits the Freud FT2000E, FT2200E, and FT3000 routers as well as many other popular routers. The micro-adjustment feature makes set-up a snap.

FT1710 Edge Guide for FT1700

This edge guide fits the Freud FT1700VCEK & FT1702VCEK routers. The micro-adjustment feature makes set up easy.



FT2050 Edge Guide Bearing

Used with Freud's FT2010 Edge Guide, this edge guide bearing is ideal for following contour templates.



Template Guides

Template guides are great for cutting complex designs with the router, and are a must for doing production work where many identical pieces are needed. Just select a template guide slightly larger than the bit you will be using, and then size your template accordingly.

Application: Adaptor plate can be used on Freud FT1700VCE, FT2000E, FT2200E, and FT3000 routers as well as many other popular routers. Template guides will work with any router or adaptor which accepts universal template guides.

Item Number	Outside Dia.	Inside Dia.	Guide Height
FT1301	5/16"	1/4"	5/32"
FT1302	3/8"	9/32"	5/16"
FT1303	7/16"	11/32"	5/32"
FT1304	1/2"	13/32"	5/16"
FT1305	5/8"	17/32"	9/16"
FT1306	51/64"	5/8"	9/16"
FT1307	3/4"	21/32"	9/16"
ET1100	Tamanlata Cuid	la Adamtar F	Noto

FT1100 Template Guide Adapter Plate FT1200 Template Guide Lock Nut



FT2020 Template Guide Set

With this set, you will always have the correct guide when you need it. The guides and adaptor are machined out of a special brass alloy for precision and long life. Set contains all the above template guides, an adaptor plate, and lock nut, all in a sturdy carrying case.

Application: Adaptor plate can be used with Freud FT1700VCE, FT2000E, FT2200E, and FT3000 routers as well as many other popular routers. Template guides will work with any router or adaptor which accepts universal template guides.



FT1500 Inlay Template Guide Set

Always get professional looking inlays with Freud's Inlay Template Guide Set. Only one template is required. That is what makes this system so easy to use and produce such accurate results. To go from cutting the recess to cutting the piece for the inlay is as easy as sliding off and on a collar over the template guide.

This set is machined from a special grade of high strength brass alloy and includes a 1/8" solid carbide spiral bit with a 1/4" shank. Comes with complete easy to follow instructions which tell you how to size your template and use the system.

Application: Inlay Template Guides will work with any router or adaptor that accepts universal template guides. Use Freud's FT1100 Template Guide Adaptor Plate (sold separately).

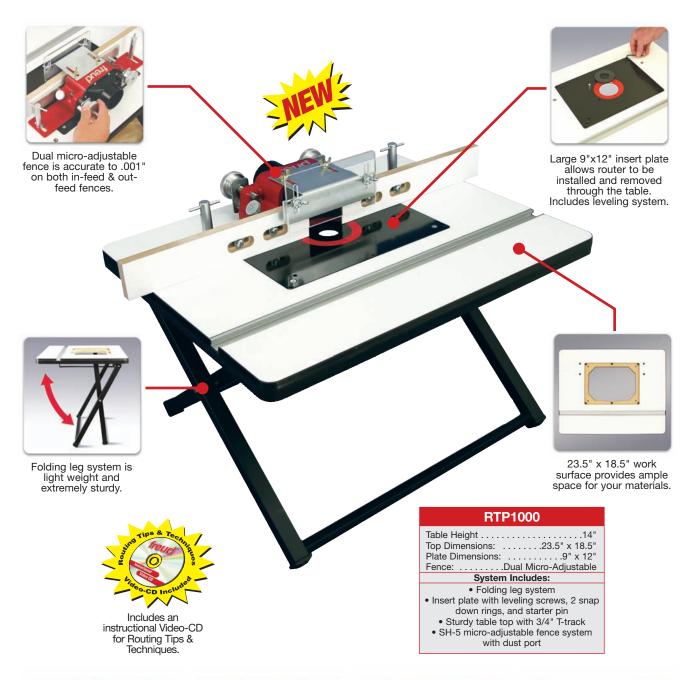


BF3510 Feather Board

Freud's universal Feather Board can be used vertically or horizontally and can be adjusted for that perfect amount of tension that any task may require. The Freud BF3510 Feather Board comes with all necessary hardware and track insert to fit standard 3/4" T-track.

RTP1000 Ultimate Portable Router Table System

Freud's New Ultimate Portable Router Table features a sturdy folding stand for easy storage and portability. Table top has a larger center opening to allow the router to be removed from above the table and features standard 3/4" T-track for infinite adjustability. The dual adjusting Freud SH-5 fence has Shaper/Joiner capabilities and be quickly adjusted or removed from the table to accommodate many different types of tasks.





Quick and easy to assemble



Ligthweight and portable



Convenient for any location



Folds flat for easy storage



RTS5000 Stationary Router Table

Freud's New RTS5000 Router Table and Fence Combo Package makes it easy to set up a professional router table system. For one price you receive the Freud SH-5 Router Table Fence, Table Top, sturdy leg system, and Router Insert Plate. The 31.5" x 23.5" x 1" table top, constructed of high pressure laminate with MDF core, provides stability for large projects and it's 3/4" aluminum T-track accepts standard miter gauges and accessories. The large 9" x 12" Router Insert Plate has snap-in reduction rings and a starter pin. Also included is the new SH-5 Premium Router Table Fence System with micro-adjustability for precise positioning of the in-feed and out-feed fences and built-in dust collection port.



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PKG0026 Ultimate Router Table System



CD's included.

Freud's New PKG0026 Router Table and Fence Combo package makes it easy to set up a professional router table system. For one price you receive the Freud FT2200E Router, SH-5 router table fence, sturdy leg system, table top, and router insert plate. The included, award winning FT2200E 3-1/4 HP Variable Speed Plunge router features easy, precise height adjustment and plenty of power for the most demanding jobs. The 31.5" x 23.5" x 1" table top, constructed of high pressure laminate with MDF core, provides stability for large projects and it's 3/4" aluminum T-track accepts standard miter gauges and accessories. The large 9" x 12" Router Insert Plate has snap-in reduction rings and a starter pin. Also included is the new SH-5 Premium Router Table Fence System with micro-adjustability for precise positioning of the in-feed and out-feed fences and built-in dust collection port.

PKG0024

System Includes:

- Adjustable steel stand
 Insert plate with leveling screws, 2 snap down rings, and starter pin
 - Sturdy table top with 3/4" T-track
- SH-5 micro-adjustable fence system with dust port
 - FT2200E Plunge Router

PKG0024 Router Table System

Freud's New PKG0024 Router Table and Fence Combo package makes it easy to set up a professional router table system. For one price you receive the Freud FT2200E Router, SH-5 router table fence, table top, and router insert plate. The included, award winning FT2200E 3-1/4 HP Variable Speed Plunge router features easy, precise height adjustment and plenty of power for the most demanding jobs. The 31.5" x 23.5" x 1" table top, constructed of high pressure laminate with MDF core, provides stability for large projects and it's 3/4" aluminum T-track accepts standard miter gauges and accessories. The large 9" x 12" Router Insert Plate has snap-in reduction rings and a starter pin. Also included is the new SH-5 Premium Router Table Fence System with microadjustability for precise positioning of the in-feed and out-feed fences and built-in dust collection port.



PKG0024

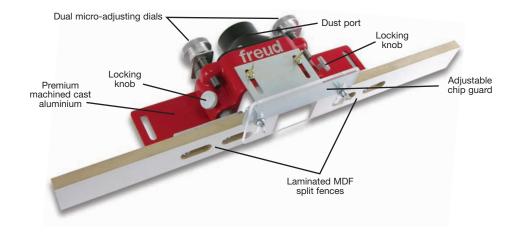
System Includes:

- Insert plate with leveling screws, 2 snap down rings, and starter pin
 - Sturdy table top with 3/4" T-track
- SH-5 micro-adjustable fence system with dust port
 - FT2200E Plunge Router

SH-5 Premium Router Table Fence System

Freud's SH-5 Premium Router Table Fence System models high-end industrial shaper fences at an attractive price. The SH-5 features a split fence for versatility and micro-adjustment for precision. This system, constructed of machined cast aluminum and steel for durability and features twin micro-adjusting knobs with .001" accuracy and 7/8" range. This individual adjusting system permits the infeed and outfeed fences to adjust separately for jointer use and other specialty applications.

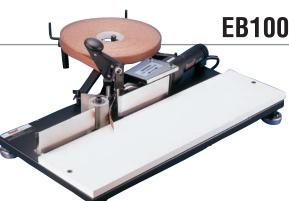
Includes: Dust Collection Port, Two Laminated MDF Fence Faces, Chip Guard, and Mounting Screws.





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EB100 Edge Bander

The Freud Edge Banding System can handle hot-melt adhesive wood and polyester edge banding and comes complete with a heavy-duty industrial heat gun. The guides are completely adjustable and will accommodate materials as wide as 2-1/4". It is capable of applying edge banding to straight and curved edges.

Edge Banding Accessories



Edge Banding Tape

The wood veneers are 1/2" thick, finger jointed, bonded to a fleece backer, sanded and coated with hot melt adhesive. Polyester bandings are laminated to a .010" thick backer sheet and coated with a high quality hot melt adhesive. Total band thickness is .016". Total length is 250'.

Item #	Width	Description	Item #	Width	Description
EB005	13/16"	Red Oak - Wood	EB035	13/16"	Ski White - Polyester
EB010	13/16"	White Birch - Wood	EB040	13/16"	Almond - Polyester
EB015	13/16"	White Oak - Wood	EB045	13/16"	Black - Polyester
EB020	13/16"	Mahogany -Wood	EB050	13/16"	Grey - Polyester
EB025	13/16"	Walnut - Wood	EB055	13/16"	Light Grey - Polyester
FB030	13/16"	Cherry - Wood	FB060	13/16"	Pine - Wood



EB090 Trimmer

This trimmer can handle two edges at the same time! Easy spring-loaded — requires no adjustments — gives a smooth finish to edge banding on even your most complex projects.

F	Replacement Knives
EB-090B	Trimmer Replacement Blades
EB-109	Set Replacement Blades

HG100 Heat Gun



This industrial Heat Gun has an IC control circuit and a Type "J" Thermocouple in the nozzle to precisely control nozzle temperature. This is what makes this such a versatile tool. An added bonus, if the nozzle's air flow is restricted, the nozzle will not overheat and burn up like other heat guns.

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JS100A Biscuit Joiner

Freud's JS100A Biscuit Joiner features an ergonomic easy-to-grip barrel design to offer improved comfort, and a convenient thumb control power switch. The cutting depth adjustment wheel has 6 settings to regulate biscuit sizes. At 6.8 lbs the powerful 6.5 amp JS100A biscuit joiner includes 4-way angle plates for accurate cuts at 0, 45, 90, and 135 degrees, spindle lock for easy blade change, carrying case and a dust collection port with dust bag for cleaner operation. This joiner also features a Perma-SHIELD® coated base plate for smooth jointing action. The JS100A is ideal for making multi-sided boxes and frames.





JS100A
Amps: .6.5 Volts: .120 RPM Range: .10,000 Depth Settings: .6
Biscuit Sizes:00, 10, 20, A, B, Max Max. Depth:20mm Angle Settings:0°, 45°, 90°, 135°
Vacuum Port: Yes Dust Bag: Yes Weight (Approx.): .6.8 lbs

JS102 Biscuit Joiner

Freud's JS102 Adjustable Fence Biscuit Joiner features an ergonomic easy-to-grip barrel design to offer improved comfort, and a convenient thumb control power switch. The cutting depth adjustment wheel has 6 settings to regulate biscuit sizes. At 6.8 lbs the powerful 6.5 amp JS102 biscuit joiner includes an adjustable fence for accurate cuts at 0-90 and 135 degrees, with positive detents at 0, 45 and 90 degrees for easy, precise adjustments, spindle lock for easy blade change, carrying case and a dust collection port with dust bag for cleaner operation. This joiner also features a Perma-SHIELD® coated base plate for smooth jointing action. The JS102 is ideal for making multisided boxes and frames.





JS102	
Amps:	120
Biscuit Sizes:00, 10, 2 Max. Depth: Angle Settings:0	
Vacuum Port:	Yes

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Biscuit Joiner Accessories



Joiner Biscuits

Freud Biscuits are sturdy splines, designed to be used with the Freud JS100, JS102 and most other biscuit joiners on the market. Our biscuits are made of compressed beechwood for strength and stability.

Item #	Description	Size
900-00	1000 Splines Size 0	1-7/8" x 5/8"
900-10	1000 Splines Size 10	2-1/8" x 3/4"
900-20	1000 Splines Size 20	2-3/8" x 7/8"
950-00	50 Splines Size 0	1-7/8" x 5/8"
950-10	50 Splines Size 10	2-1/8" x 3/4"
950-20	50 Splines Size 20	2-3/8" x 7/8"
900-XX	1000 Splines Mixed	Assorted



Replacement Cutters

Our replacement cutters are made using the same carbide technology we put in our saw blades. These can be used in our JS100, or JS102. The FI100 has 6 teeth for fast joining. The FI102 has 8 teeth for smoother joining. Both are equipped with our anti-kickback design.

ltem #	Diameter	Teeth	Arbor	Kerf	Plate
FI100	3-15/16"	6 Flat	22mm	.157	.096
FI102	3-15/16"	8 Flat	22mm	.157	.096



G100 Joiner Glue Bottle

Our G100 Biscuit Joiner Gluing System has a flat nozzle, perfect for applying glue into the joint slots. We've included a base that holds the bottle to prevent the glue from drying in the tip, plus, it keeps the glue at the tip, ready for action (base contains a sponge that holds water for moisture). Top it off with the attached cap. Use our gluing system to avoid a sticky situation.

FJ85K Heavy Duty Variable Speed Jigsaw

Freud's FJ85K Heavy-Duty Variable Speed Jigsaw features Electronic Cruise Control so speeds remains constant under different loads. This allows the powerful 6.0 amp motor to handle the most difficult projects, even hard knots without slowing down. This 5.4 lb. jigsaw includes a quick-fix blade change system that allows for easy, tool-free changing of blades. The non-marring base attachment with anti-splintering insert prevents scratching and damage to delicate work pieces. Variable speed and four orbital settings give superior cuts in a wide range of materials. Comes equipped with a built-in dust collection port for easy clean-up.





 FJ85K

 Amps:
 .6.0

 Volts:
 .120

 Speed Controls:
 Electronic Cruise Control

 Orbital Settings:
 .4

 Stroke Length:
 .1"

 Strokes Per Minute:
 .500 - 3,000

Accepts Bosch Type Shanks

Weight: 5.4 lbs

Max. Cutting Depth:2-3/8'

3-1/4" Portable Planers

Freud's portable planers are designed to handle beveling, chamfering, rabbeting, and surface planing with ease. Calibrated depth controls with detents allow for precision depth adjustment. Freud's Portable Planers are designed to meet the needs of the jobsite professional as well as the fine woodworker. These planers also include reversible carbide knives for extended life, blade wrench, fence, rabbeting depth stop, and dust collection nozzle.





FE82K
Amps: .6 Volts: .120 RPM Range: .13,000 Cut Width: .3-1/4" Max. Cut Depth: .3/32" Depth Control: .Calibrated With Detents Blades: .Reversible Carbide Weight: .5.4 lbs
Includes: Blade Wrench, Rabbeting Depth Stop,

Fence, Dust Collection Nozzle







Electronic Speed Control maintains constant speed under load.

F	Ε	8	4

Amps:	
Volts:	
RPM Range:	
Speed Control:Electronic	
Cut Width:	
Max. Cut Depth:	
Depth Control: .Calibrated With Detents	
Blades:Reversible Carbide	
Weight: 5.4 lbs	

Include

Blade Wrench, Rabbeting Depth Stop, Fence, Dust Collection Nozzle

Portable Planer Accessories



CE8210 Angle Fence

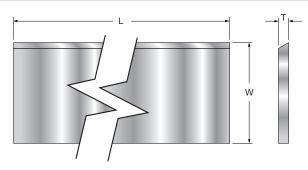
Variable-Angle Edge Guide For FE82 Planer. Features a 9" surface for control and range of adjustment from 0° to 45° for versatility.

CG080 3-1/4" Carbide Knives

1 pair of reversible, carbide replacement knives for the FE82 Power Planer.



High Speed Steel Industrial Planer & Jointer Knives



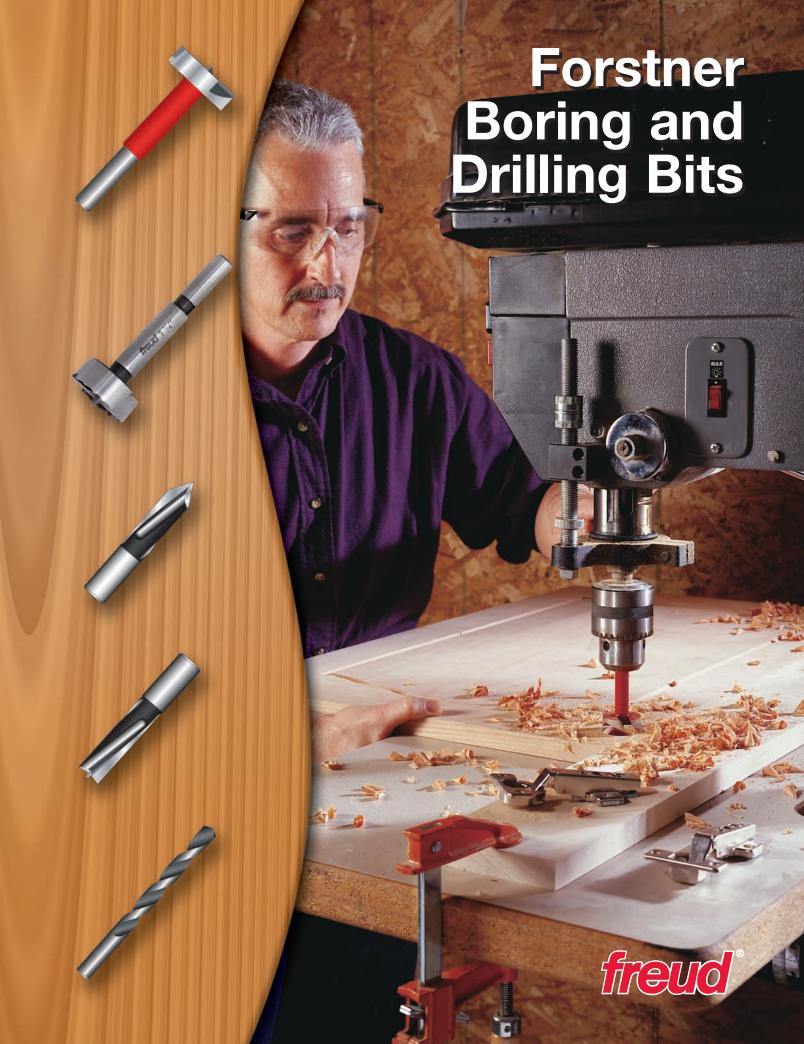
These Industrial Planer and Jointer Knives are made from a premium High Speed Steel stock. Each is pre-ground to a razor sharp edge to provide a super smooth cut.

Item Number	Length (L)	Width (W)	Thickness (T)	Number of Pieces	Item Number	Lenght (L)	Width (W)	Thickness (T)	Number of Pieces
C010	12"	7/8"	1/8"	1	C360	6"	7/8"	1/8"	3
C012	12"	7/8"	1/8"	3	C370	6"	1"	1/8"	2
C020	12-1/2"	15/16"	1/8"	1	C390	6-1/16"	3/4"	1/8"	3
C030	13-1/8"	11/16"	5/32"	1	C400	6-1/8"	11/16"	1/8"	3
C035	18"	1-1/8"	5/32"	1	C410	6-1/8"	3/4"	1/8"	3
C040	19"	11/16"	1/8"	1	C420	6-1/2"	1"	1/8"	3
C045	15"	1"	1/8"	3	C430	8"	5/8"	1/16"	4
C050	20"	1"	1/8"	1	C440	8"	5/8"	1/8"	4
C052	20"	1-3/16"	1/8"	4	C441	8"	5/8"	1/8"	3
C055	20-1/2"	11/16"	1/8"	3	C460	8"	3/4"	1/8"	3
C060	24"	1-1/8"	5/32"	1	C470	8"	7/8"	1/8"	3
C070	24"	1-1/2"	5/32"	1	C480	8"	1"	1/8"	3
C090	25"	5/8"	3/32"	1	C490	8-1/16"	5/8"	3/32"	3
C100	25"	5/8"	1/8"	1	C491	8-1/16"	5/8"	3/32"	4
C110	25"	3/4"	1/8"	1	C500	8-1/4"	11/4"	1/8"	3
C120	25"	1-1/4"	1/8"	1	C510	12"	5/8"	1/8"	3
C130	25"	1-1/4"	5/32"	1	C520	12"	3/4"	1/8"	3
C140	30"	1-1/2"	1/8"	1	C540	12"	1"	1/8"	3
C150	37"	1-1/8"	1/8"	1	C550	12-1/4"	5/8"	1/8"	3
C160	37"	1-3/8"	1/8"	1	C560	12-1/4"	3/4"	1/8"	3
C170	37"	1-3/8"	5/32"	1	C570	12-1/4"	1"	1/8"	3
C180	37"	1-1/4"	5/32"	1	C573	12-1/2"	11/16"	1/8"	3
C190	37"	1-1/2"	5/32"	1	C583	25"	11/16"	1/8"	3
C200	37"	2"	5/32"	1	C593	18-1/2"	11/16"	1/8"	3
C310	4"	5/8"	1/8"	3	C600*	10"	1-3/8"	1/8"	2
C320	4"	7/8"	1/8"	3	C610*	12-1/2"	35mm	1/8"	2
C330	4-3/8"	11/16"	1/8"	3	C620*	15-5/8"	35mm	1/8"	2
C350	6"	5/8"	1/8"	3	C630*	13-1/8"	1"	1/8"	3
C351	6"	5/8"	1/8"	4					

* These knives are designed for the following machines:

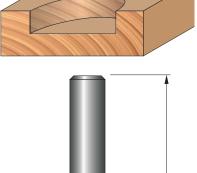
C600 Ryobi AP10 C610 Makita 2030N C620 Makita 2040 C630 Delta RC-33





Carbide Forstner Bits





Freud's Carbide Forstner Bits bring a technical level of excellence not found in a standard high speed steel Forstner Bit. These bits will drill through a multitude of materials. Use to drill pocket holes, angled holes, overlapping holes and flat bottom holes. Best of all, these bits will not burn like a standard forstner and will stay sharp many times longer. These bits can be sharpened by any reputable sharpening service who sharpens router bits.

Application: Drills all composition materials, plywoods, hardwoods, solid surface materials, and softwoods. Use in hand held drills and drill presses.

Item Number	Cut Dia.(D)	Overall Length(L)	Shank Diameter
FC-001	1/4"	3-7/16"	5/32"
FC-002	3/8"	3-7/16"	1/4"
FC-003	1/2"	3-15/32"	5/16"
FC-004	5/8"	3-1/2"	5/16"
FC-005	3/4"	3-1/2"	3/8"
FC-006	7/8'	3-1/2"	3/8"
FC-007	1"	3-1/2"	3/8"
FC-008	1-1/8"	3-1/2"	3/8"
FC-009	1-1/4"	3-1/2"	3/8"
FC-010	1-3/8"	3-1/2"	3/8"
FC-011	1-1/2"	3-1/2"	3/8"
FC-012	1-5/8"	3-1/2"	3/8"
FC-013	1-3/4"	3-1/2"	3/8"
FC-014	1-7/8"	3-1/2"	3/8"
FC-015	2"	3-1/2"	3/8"
FC-016	2-1/8"	3-1/2"	3/8"

Rotation = Right

Seven Piece Carbide Forstner Bit Set



D

This set contains the seven of our Carbide Forstner Bits. From the 1/4" diameter to the 1-3/8" diameter these bits will outlast standard forstners many times over. These bits come packaged in a sturdy wooden case for protection and storage.

Application: Drills all composition materials, plywoods, hardwoods, solid surface materials and softwoods. Use in hand held drills and drill presses.

Set FC-107

Item Number	Outside Diameter
FC-001	1/4"
FC-002	3/8"
FC-003	1/2"
FC-004	5/8"
FC-005	3/4"
FC-007	1"
FC-010	1-3/8"

Precision Shear™ Forstner Bits

New Precision Shear™ Forstner Bits feature a double-ground, razor-sharp serrated edge that slices throughout the rotation of the bit for less splintering and chipping, producing flawless flat-bottom holes. This unique geometric design has multiple cutting edges that produce greater shearing action, allowing for faster rotational speeds and more efficient cutting.

Competitive Forstner Bit designs produce small chips and dust that collect in the cutting area, increasing friction and heat, thus causing the bit to dull quickly. Those designs also create holes with rough edges that require sanding.

In addition to serrated edges, Presision Shear™ Forstner Bits include:

- Hardened Steel Body warrants a longer life and sharper cutting edge.
- Ultra Sharp Spur ensures an accurate hole and resists "walking" on material.
- Steep Angled Cutting Edges produce holes that are smooth and flat, and create "chisel-like" curls for fast, clean chip removal.
- Quality Forged Construction instead of casting, strengthens bits for extended life.

Item Number	Cut Dia.(D)	Overall Length(L)	Shank Diameter
PB-001	1/4"	3-1/2"	1/4"
PB-002	3/8"	3-1/2"	1/4"
PB-003	1/2"	3-1/2"	5/16"
PB-004	5/8"	3-1/2"	5/16"
PB-005	3/4"	3-1/2"	3/8"
PB-006	7/8"	3-1/2"	3/8"
PB-007	1"	3-1/2"	3/8"
PB-008	1-1/8"	3-1/2"	3/8"
PB-009	1-1/4"	3-1/2"	3/8"
PB-010	1-3/8"	3-1/2"	3/8"
PB-011	1-1/2"	3-1/2"	3/8"
PB-012	1-5/8"	3-1/2"	3/8"
PB-013	1-3/4"	3-1/2"	3/8"
PB-014	1-7/8"	3-1/2"	3/8"
PB-015	2"	3-1/2"	3/8"
PB-016	2-1/8"	3-1/2"	3/8"

Rotation = Right

Sixteen Piece Precision Shear™ Forstner Bit Set



Close-up showing serrated egdes

This set contains Freud's entire line of Precision Shear™ Forstner Bits. From the 1/4" diameter to the 2-1/8" diameter these bits will drill flat bottom holes, pocket holes, or overlapping holes.

Application: Drills plywoods, hardwoods, and softwoods. Use in hand held drills and drill presses.

Set PB100

Item Number	Outside Diameter
PB-001	1/4"
PB-002	3/8"
PB-003	1/2"
PB-004	5/8"
PB-005	3/4"
PB-006	7/8"
PB-007	1"
PB-008	1-1/8"
PB-009	1-1/4"
PB-010	1-3/8"
PB-011	1-1/2"
PB-012	1-5/8"
PB-013	1-3/4"
PB-014	1-7/8"
PB-015	2"
PB-016	2-1/8"

Seven Piece Precision Shear™ Forstner Bit Set



This set contains the seven smallest sizes of our Precision Shear™ Carbide Forstner Bits. From the 1/4" diameter to the 1" diameter these bits will drill flat bottom holes, pocket holes, or overlapping holes.

Application: Drills plywoods, hardwoods, and softwoods. Use in hand held drills and drill presses.

Set PB-107B

Item Number	Outside Diameter
PB-001	1/4"
PB-003	1/2"
PB-005	3/4"
PB-007	1"
PB-002	3/8"
PB-004	5/8"
PB-006	7/8"

Four Piece Precision Shear™ Forstner Bit Sets



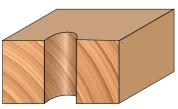
This set contains the four smallest sizes of our Precision Shear[™] Carbide Forstner Bits. From the 1/4" diameter to the 1" diameter these bits will drill flat bottom holes, pocket holes, or overlapping holes.

Application: Drills plywoods, hardwoods, and softwoods. Use in hand held drills and drill presses.

Set PB-104

Item Number	Outside Diameter
PB-001	1/4"
PB-003	1/2"
PB-005	3/4"
PB-007	1"

Industrial Carbide Tipped Through Hole Boring Bits



Freud's boring bits are designed for multiple spindle machines. The 10mm x 20mm shank is compatible with most boring machines. The 60° point makes for accurate hole location of through holes.

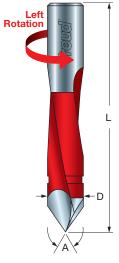
Application: Drills all composition materials, solid surface materials, plywoods, hardwoods, and softwoods on automatic and manual multi-spindle boring machines.



Descri	0.1	0	Mare Hale	Deleties	Accelo	Observe
Item Number	Cut Dia.(D)	Overall Length(L)	Max. Hole Depth	Rotation	Angle (A)	Shank Diameter
TH39657R	5/32"	57.5mm	27mm	Right	60°	10mm
TH39657L	5/32"	57.5mm	27mm	Left	60°	10mm
TH40057R	4mm	57.5mm	27mm	Right	60°	10mm
TH40057L	4mm	57.5mm	27mm	Left	60°	10mm
TH47657R	3/16"	57.5mm	27mm	Right	60°	10mm
TH47657L	3/16"	57.5mm	27mm	Left	60°	10mm
TH50057R	5mm	57.5mm	27mm	Right	60°	10mm
TH50057L	5mm	57.5mm	27mm	Left	60°	10mm
TH55557R	7/32"	57.5mm	27mm	Right	60°	10mm
TH55557L	7/32"	57.5mm	27mm	Left	60°	10mm
TH60057R	6mm	57.5mm	27mm	Right	60°	10mm
TH60057L	6mm	57.5mm	27mm	Left	60°	10mm
TH63557R	1/4"	57.5mm	27mm	Right	60°	10mm
TH63557L	1/4"	57.5mm	27mm	Left	60°	10mm
TH70057R	7mm	57.5mm	27mm	Right	60°	10mm
TH70057L	7mm	57.5mm	27mm	Left	60°	10mm
TH80057R	8mm	57.5mm	27mm	Right	60°	10mm

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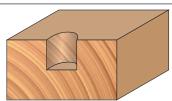
(Continued) Industrial Carbide Tipped Through Hole Boring Bits





	Item Number	Cut Dia.(D)	Overall Length(L)	Max. Hole Depth	Rotation	Angle (A)	Shank Diameter		
Ī	TH80057L	8mm	57.5mm	27mm	Left	60°	10mm		
	TH90057R	9mm	57.5mm	27mm	Right	60°	10mm		
	TH90057L	9mm	57.5mm	27mm	Left	60°	10mm		
	TH93857R	3/8"	57.5mm	27mm	Right	60°	10mm		
	TH93857L	3/8"	57.5mm	27mm	Left	60°	10mm		
	TH10057R	10mm	57.5mm	27mm	Right	60°	10mm		
	TH10057L	10mm	57.5mm	27mm	Left	60°	10mm		
	TH12057R	12mm	57.5mm	27mm	Right	60°	10mm		
	TH12057L	12mm	57.5mm	27mm	Left	60°	10mm		
	TH39670R	5/32"	70mm	35mm	Right	60°	10mm		
	TH39670L	5/32"	70mm	35mm	Left	60°	10mm		
	TH40070R	4mm	70mm	35mm	Right	60°	10mm		
	TH40070L	4mm	70mm	35mm	Left	60°	10mm		
	TH47670R	3/16"	70mm	35mm	Right	60°	10mm		
	TH47670L	3/16"	70mm	35mm	Left	60°	10mm		
	TH50070R	5mm	70mm	35mm	Right	60°	10mm		
	TH50070L	5mm	70mm	35mm	Left	60°	10mm		
	TH55570R	7/32"	70mm	35mm	Right	60°	10mm		
	TH55570L	7/32"	70mm	35mm	Left	60°	10mm		
	TH60070R	6mm	70mm	35mm	Right	60°	10mm		
	TH60070L	6mm	70mm	35mm	Left	60°	10mm		
	TH63570R	1/4"	70mm	35mm	Right	60°	10mm		
	TH63570L	1/4"	70mm	35mm	Left	60°	10mm		
	TH70070R	7mm	70mm	35mm	Right	60°	10mm		
	TH70070L	7mm	70mm	35mm	Left	60°	10mm		
	TH80070R	8mm	70mm	35mm	Right	60°	10mm		
	TH80070L	8mm	70mm	35mm	Left	60°	10mm		
	TH90070R	9mm	70mm	35mm	Right	60°	10mm		
	TH90070L	9mm	70mm	35mm	Left	60°	10mm		
	TH93870R	3/8"	70mm	35mm	Right	60°	10mm		
	TH93870L	3/8"	70mm	35mm	Left	60°	10mm		
	TH10070R	10mm	70mm	35mm	Right	60°	10mm		
	TH10070L	10mm	70mm	35mm	Left	60°	10mm		
	TH12070R	12mm	70mm	35mm	Right	60°	10mm		
	TH12070L	12mm	70mm	35mm	Left	60°	10mm		
	TH12770R	1/2"	70mm	35mm	Right	60°	10mm		
	TH12770L	1/2"	70mm	35mm	Left	60°	10mm		

Industrial Carbide Tipped Brad Point Boring Bits



Freud's Boring Bits are designed for multiple spindle machines. The 10mm $\,x$ 20mm shank are compatible with most boring machines.

Application: Drills all composition materials, solid surface materials, plywoods, hardwoods, and softwoods on automatic or manual multi-spindle boring machines.





Item Number	Cut Dia.(D)	Overall Length(L)	Max. Hole Depth	Rotation	Shank Dia.
BP30057R	3mm	57.5mm	27mm	Right	10mm
BP30057L	3mm	57.5mm	27mm	Left	10mm
BP39657R	5/32"	57.5mm	27mm	Right	10mm
BP39657L	5/32"	57.5mm	27mm	Left	10mm
BP40057R	4mm	57.5mm	27mm	Right	10mm
BP40057L	4mm	57.5mm	27mm	Left	10mm
BP45057R	4.5mm	57.5mm	27mm	Right	10mm
BP45057L	4.5mm	57.5mm	27mm	Left	10mm
BP47657R	3/16"	57.5mm	27mm	Right	10mm
BP47657L	3/16"	57.5mm	27mm	Left	10mm
BP50057R	5mm	57.5mm	27mm	Right	10mm
BP50057L	5mm	57.5mm	27mm	Left	10mm
BP52057R	5.2mm	57.5mm	27mm	Right	10mm
BP52057L	5.2mm	57.5mm	27mm	Left	10mm
BP55557R	7/32"	57.5mm	27mm	Right	10mm
BP55557L	7/32"	57.5mm	27mm	Left	10mm

(Continued) Industrial Carbide Tipped Brad Point Boring Bits

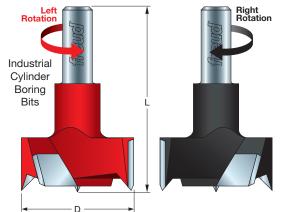
Item Number	Cut Dia.(D)	Overall Length(L)	Max. Hole Depth	Rotation	Shank Dia.
BP60057R	6mm	57.5mm	27mm	Right	10mm
BP60057L	6mm	57.5mm	27mm	Left	10mm
BP63557R	1/4"	57.5mm	27mm	Right	10mm
BP63557L	1/4"	57.5mm	27mm	Left	10mm
BP65057R	6.5mm	57.5mm	27mm	Right	10mm
BP65057L	6.5mm	57.5mm	27mm	Left	10mm
BP70057R	7mm	57.5mm	27mm	Right	10mm
BP70057L	7mm	57.5mm	27mm	Left	10mm
BP80057R	8mm	57.5mm	27mm	Right	10mm
BP80057L	8mm	57.5mm	27mm	Left	10mm
BP82057R	8.2mm	57.5mm	27mm	Right	10mm
BP82057L	8.2mm	57.5mm	27mm	Left	10mm
BP90057R	9mm	57.5mm	27mm	Right	10mm
BP90057L	9mm	57.5mm	27mm	Left	10mm
BP93857R	3/8"	57.5mm	27mm	Right	10mm
BP93857L	3/8"	57.5mm	27mm	Left	10mm
BP10057R	10mm	57.5mm	27mm	Right	10mm
BP10057L	10mm	57.5mm	27mm	Left	10mm
BP11057R	11mm	57.5mm	27mm	Right	10mm
BP11057L	11mm	57.5mm	27mm	Left	10mm
BP11157R	7/16"	57.5mm	27mm	Right	10mm
BP11157L	7/16"	57.5mm	27mm	Left	10mm
BP12057R	12mm	57.5mm	27mm	Right	10mm
BP12057L	12mm	57.5mm	27mm	Left	10mm
BP12757R	1/2"	57.5mm	27mm	Right	10mm
BP12757L	1/2"	57.5mm	27mm	Left	10mm
BP13057R	13mm	57.5mm	27mm	Right	10mm
BP13057L	13mm	57.5mm	27mm	Left	10mm
BP14057R	14mm	57.5mm	27mm	Right	10mm
BP14057L	14mm	57.5mm	27mm	Left	10mm
BP15057R	15mm	57.5mm	27mm	Right	10mm
BP15057L	15mm	57.5mm	27mm	Left	10mm
BP16057R	16mm	57.5mm	27mm	Right	10mm
BP16057L	16mm	57.5mm	27mm	Left	10mm
BP39670R	5/32"	70mm	35mm	Right	10mm
BP39670L	5/32"	70mm	35mm	Left	10mm
BP40070R	4mm	70mm	35mm	Right	10mm
BP40070L	4mm	70mm	35mm	Left	10mm
BP47670R	3/16"	70mm	35mm	Right	10mm
BP47670L	3/16"	70mm	35mm	Left	10mm

Item Number	Cut Dia.(D)	Overall Length(L)	Max. Hole Depth	Rotation	Shank Dia.
BP50070R	5mm	70mm	35mm	Right	10mm
BP50070L	5mm	70mm	35mm	Left	10mm
BP51070R	5.1mm	70mm	35mm	Right	10mm
BP51070L	5.1mm	70mm	35mm	Left	10mm
BP52070R	5.2mm	70mm	35mm	Right	10mm
BP52070L	5.2mm	70mm	35mm	Left	10mm
BP55570R	7/32"	70mm	35mm	Right	10mm
BP55570L	7/32"	70mm	35mm	Left	10mm
BP60070R	6mm	70mm	35mm	Right	10mm
BP60070L	6mm	70mm	35mm	Left	10mm
BP63570R	1/4"	70mm	35mm	Right	10mm
BP63570L	1/4"	70mm	35mm	Left	10mm
BP65070R	6.5mm	70mm	35mm	Right	10mm
BP65070L	6.5mm	70mm	35mm	Left	10mm
BP70070R	7mm	70mm	35mm	Right	10mm
BP70070L	7mm	70mm	35mm	Left	10mm
BP80070R	8mm	70mm	35mm	Right	10mm
BP80070L	8mm	70mm	35mm	Left	10mm
BP82070R	8.2mm	70mm	35mm	Right	10mm
BP82070L	8.2mm	70mm	35mm	Left	10mm
BP90070R	9mm	70mm	35mm	Right	10mm
BP90070L	9mm	70mm	35mm	Left	10mm
BP93870R	3/8"	70mm	35mm	Right	10mm
BP93870L	3/8"	70mm	35mm	Left	10mm
BP10070R	10mm	70mm	35mm	Right	10mm
BP10070L	10mm	70mm	35mm	Left	10mm
BP11070R	11mm	70mm	35mm	Right	10mm
BP11070L	11mm	70mm	35mm	Left	10mm
BP11170R	7/16"	70mm	35mm	Right	10mm
BP11170L	7/16"	70mm	35mm	Left	10mm
BP12070R	12mm	70mm	35mm	Right	10mm
BP12070L	12mm	70mm	35mm	Left	10mm
BP12770R	1/2"	70mm	35mm	Right	10mm
BP12770L	1/2"	70mm	35mm	Left	10mm
BP14070R	14mm	70mm	35mm	Right	10mm
BP14070L	14mm	70mm	35mm	Left	10mm
BP15070R	15mm	70mm	35mm	Right	10mm
BP15070L	15mm	70mm	35mm	Left	10mm
BP16070R	16mm	70mm	35mm	Right	10mm

Industrial Carbide Tipped Cylinder (Hinge) Boring Bits



These boring bits are designed for accurate boring and the two wing cutters and two spur cutters prevent bottom side tear out. All 6" long bits come in a wooden case and the 57mm long bits have a 10mm x 20mm shank with an adjustable top screw making them compatible with most boring machines. The 3557E is designed with a 3/8" shaft to fit in most drill presses.



Application: Drills all composition materials, solid surface materials, plywoods, hardwoods, and softwoods. Use on automatic and manual multi-spindle boring machines.

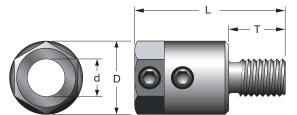
Item Number	Cut Dia.(D)	Overall Length(L)	Rotation	Shank Dia.
06100	1"	6"	Right	1/2"
06118	1-1/8"	6"	Right	1/2"
06114	1-1/4"	6"	Right	1/2"
06138	1-3/8"	6"	Right	1/2"
06112	1-1/2"	6"	Right	1/2"
06158	1-5/8"	6"	Right	1/2"
06134	1-3/4"	6"	Right	1/2"
06178	1-7/8"	6"	Right	1/2"
06200	2"	6"	Right	1/2"
06218	2-1/8"	6"	Right	1/2"
06214	2-1/4"	6"	Right	1/2"

Industrial Carbide Tipped Cylinder (Hinge) Boring Bits (Continued)

Item	Cut	Overall	Rotation	Shank
Number	Dia.(D)	Length(L)		Dia.
06212	2-1/2"	6"	Right	1/2"
06234	2-3/4"	6"	Right	1/2"
06300	3"	6"	Right	1/2"
CB12057R	12mm	57.5mm	Right	10mm
CB12057L	12mm	57.5mm	Left	10mm
CB14057R	14mm	57.5mm	Right	10mm
CB14057L	14mm	57.5mm	Left	10mm
CB15057R	15mm	57.5mm	Right	10mm
CB15057L	15mm	57.5mm	Left	10mm
CB16057R	16mm	57.5mm	Right	10mm
CB16057L	16mm	57.5mm	Left	10mm
CB17057R	17mm	57.5mm	Right	10mm
CB17057L	17mm	57.5mm	Left	10mm
CB18057R	19mm	57.5mm	Right	10mm
CB18057L	18mm	57.5mm	Left	10mm
CB19057R	19mm	57.5mm	Right	10mm
CB19057L	19mm	57.5mm	Left	10mm
CB20057R	20mm	57.5mm	Right	10mm
CB20057L	20mm	57.5mm	Left	10mm
CB22057R	22mm	57.5mm	Right	10mm
CB22057L	22mm	57.5mm	Left	10mm
CB24057R	24mm	57.5mm	Right	10mm
CB24057L	24mm	57.5mm	Left	10mm
CB25057R	25mm	57.5mm	Right	10mm
CB25057L	25mm	57.5mm	Left	10mm
CB26057R	26mm	57.5mm	Right	10mm
CB26057L	26mm	57.5mm	Left	10mm
CB28057R	28mm	57.5mm	Right	10mm
CB28057L	28mm	57.5mm	Left	10mm
CB30057R	30mm	57.5mm	Right	10mm
CB30057L	30mm	57.5mm	Left	10mm
CB32057R	32mm	57.5mm	Right	10mm
CB32057L	32mm	57.5mm	Left	10mm
CB35057R	35mm	57.5mm	Right	10mm
CB35057L	35mm	57.5mm	Left	10mm
3557E	35mm	57.5mm	Right	3/8"

14	01	0	Detetion	Ob and
Item Number	Cut Dia.(D)	Overall Length(L)	Rotation	Shank Dia.
CB38057R	38mm	57.5mm	Right	10mm
CB38057L	38mm	57.5mm	Left	10mm
CB40057R	40mm	57.5mm	Right	10mm
CB40057L	40mm	57.5mm	Left	10mm
CB12070R	12mm	70mm	Right	10mm
CB12070L	12mm	70mm	Left	10mm
CB12770R	1/2"	70mm	Right	10mm
CB12770L	1/2"	70mm	Left	10mm
CB14070R	14mm	70mm	Right	10mm
CB14070L	14mm	70mm	Left	10mm
CB15070R	15mm	70mm	Right	10mm
CB15070L	15mm	70mm	Left	10mm
CB16070R	16mm	70mm	Right	10mm
CB16070L	16mm	70mm	Left	10mm
CB17070R	17mm	70mm	Right	10mm
CB17070L	17mm	70mm	Left	10mm
CB18070R	18mm	70mm	Right	10mm
CB18070L	18mm	70mm	Left	10mm
CB19570R	3/4"	70mm	Right	10mm
CB19570L	3/4"	70mm	Left	10mm
CB20070R	20mm	70mm	Right	10mm
CB20070L	20mm	70mm	Left	10mm
CB22070R	22mm	70mm	Right	10mm
CB22070L	22mm	70mm	Left	10mm
CB25070R	25mm	70mm	Right	10mm
CB25070L	25mm	70mm	Left	10mm
CB26070R	26mm	70mm	Right	10mm
CB26070L	26mm	70mm	Left	10mm
CB30070R	30mm	70mm	Right	10mm
CB30070L	30mm	70mm	Left	10mm
CB35070R	35mm	70mm	Right	10mm
CB35070L	35mm	70mm	Left	10mm
CB38070R	38mm	70mm	Right	10mm
CB38070L	38mm	70mm	Left	10mm
CB40070R	40mm	70mm	Right	10mm
CB40070R	40mm	70mm	Left	10mm

Boring Machine Chucks

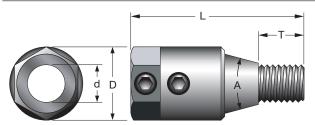


These chucks are made to exacting specifications for Multi-Spindle Boring machines. Will fit all 10mm X 20mm shank bits.

Application: 6010L and 6010R fit Nottmeyer machines. 6015L and 6015R fit Ayen®, Holtzma®, Mayer®, Knoevenagel®, and Towegge® machines.

Item Number	Outside Dia.(D)	Inside Dia.(d)	Overall Length(L)	Rotation	Shank Dia.	Shank Length(T)
6010L	19.5mm	10mm	40mm	Left	M8	15mm
6010R	19.5mm	10mm	40mm	Right	M8	15mm
6015L	19.5mm	10mm	40mm	Left	M10	15mm
6015R	19.5mm	10mm	40mm	Riaht	M10	15mm

Boring Machine Chucks

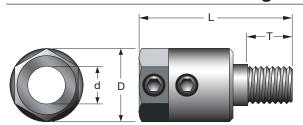


These chucks are made to exacting specifications for Multi-Spindle Boring machines. Will fit all 10mm X 20mm shank bits.

Application: 6020L and 6020R fit Vitap®, Busellato®, Schleicher®, Piccolo®, Ompec®, Dubelfix®, Alberti®, and SCMI® machines. 6025L and 6025R fit Bilek machines.

Item Number	Outside Dia.(D)	Inside Dia.(d)	Overall Length(L)	Rotation	Angle (A)	Shank Dia.	Shank Length(T)
6020L	19.5mm	10mm	46mm	Left	30°	M10	12mm
6020R	19.5mm	10mm	46mm	Right	30°	M10	12mm
6025L	19.5mm	10mm	51mm	Left	20.8°	M8	12mm
6025R	19.5mm	10mm	51mm	Right	20.8°	M8	12mm

Boring Machine Chucks

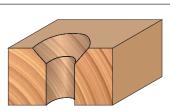


These chucks are made to exacting specifications for Multi-Spindle Boring machines. Will fit all 10mm X 20mm shank bits.

Application: 6030L and 6030R fit Morbidelli®, Biesse®, Gessner®, Weeke®, Bottcher®, Reimall® and Towegge® machines. 6035L and 6035R fit Nottmeyer® and Morbidelli® machines.

Item Number	Outside Dia.(D)	Inside Dia.(d)	Overall Length(L)	Rotation	Shank Dia.	Shank Length(T)
6030L	19.5mm	10mm	41mm	Left	M10	12mm
6030R	19.5mm	10mm	41mm	Right	M10	12mm
6035L	19.5mm	10mm	41mm	Left	M8	12mm
6035R	19.5mm	10mm	41mm	Right	M8	12mm

Carbide Tipped Boring Bit Countersinks



Freud's Carbide Tipped Boring Bit Countersinks are engineered to meet the most demanding industrial applications. They simply slip over the body of boring bits, and are held in place with a set screw.

Application: Countersinks all composition materials, solid surface materials, plywoods, hardwoods, and softwoods. Use with carbide tipped boring bits on automatic or manual multi-spindle boring machines.

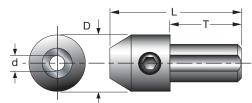


Item Number	Outside Dia.(D)	Inside Dia.(d)	Rotation	Angle (A)
7010L	15.5mm	5mm	Left	82°
7010R	15.5mm	5mm	Right	82°
7012L	15.5mm	6mm	Left	82°
7012R	15.5mm	6mm	Right	82°
7013L	18mm	7mm	Left	82°
7013R	18mm	7mm	Right	82°
7014L	18mm	8mm	Left	82°

Item Number	Outside Dia.(D)	Inside Dia.(d)	Rotation	Angle (A)
7014R	18mm	8mm	Right	82°
7015L	18mm	9mm	Left	82°
7015R	18mm	9mm	Right	82°
7016L	20mm	10mm	Left	82°
7016R	20mm	10mm	Right	82°
7018L	20mm	12mm	Left	82°
7018R	20mm	12mm	Right	82°

fraud®

10mm Drill Adaptors



Use these adapters with solid carbide drill bits for multiple spindle boring machines. The $10\text{mm} \times 20\text{mm}$ shank is compatible with most boring machines.

Application: Converts Freud Solid Carbide Drill Bits as well as other manufacturers bits for use in automatic and manual multi-spindle boring machines.

Item Number	Outside Dia.(D)	Inside Dia.(d)	Overall Length(L)	Shank Diameter	Shank Length(T)
7120	15mm	2mm	35mm	10mm	19mm
7125	15mm	2.5mm	35mm	10mm	19mm
7130	15mm	3mm	35mm	10mm	19mm
7132	15mm	3.2mm	35mm	10mm	19mm
7135	15mm	3.5mm	35mm	10mm	19mm
7140	15mm	4mm	35mm	10mm	19mm

10mm Drill Bushings



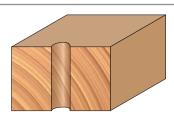


Use these bushings with solid carbide drill bits for multiple spindle boring machines. The 10mm x 20mm shank is compatible with most boring machines.

Application: Converts Freud Solid Carbide Drill Bits as well as other manufacturers bits for use in automatic and manual multi-spindle boring machines.

Item Number	Inside Dia.(d)	Shank Dia.(D)	Overall Length(L)
7520	2mm	10mm	22mm
7525	2.5mm	10mm	22mm
7530	3mm	10mm	22mm
7532	3.2mm	10mm	22mm
7535	3.5mm	10mm	22mm
7540	4mm	10mm	22mm

Solid Carbide Drill Bits



Solid Carbide Drill Bits are ideal for drilling small diameter holes with multiple spindle machines. Use with adapters for 10mm x 20mm shank that is compatible with most European boring machines.

Application: Drills all composition materials, solid surface materials, plywoods, hardwoods, and softwoods on automatic or manual multi-spindle boring machines.



Item Number	Cut Dia.(D)	Overall Length(L)	Max. Hole Depth(H)	Rotation	Shank Diameter
7620L	2mm	49mm	18mm	Left	2mm
7620R	2mm	49mm	18mm	Right	2mm
7625L	2.5mm	55mm	22mm	Left	2.5mm
7625R	2.5mm	55mm	22mm	Right	2.5mm
7630L	3mm	55mm	22mm	Left	3mm
7630R	3mm	55mm	22mm	Right	3mm
7632L	3.2mm	55mm	22mm	Left	3.2mm
7632R	3.2mm	55mm	22mm	Right	3.2mm
7635L	3.5mm	55mm	25mm	Left	3.5mm
7635R	3.5mm	55mm	25mm	Right	3.5mm
7640L	4mm	55mm	25mm	Left	4mm
7640R	4mm	55mm	25mm	Right	4mm

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7130345	6138	13-15096	20-508111	34-110120
7132345	6158342	13-15496	20-574110	34-112120
7135345	6178	13-15696	22-100156	34-114120
7140345	6200	13-15896	22-101156	34-116120
7520345	6212	14-10291	22-102156	34-117120
7525	6214	14-10491	22-103	34-118120
7530		14-10691	22-104	34-119120
7532345		14-20491	22-105156	34-120120
7535	6300	16-09490 16-09690	22-106	34-122120 34-124120
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03-116	08-13282	16-10090	22-110	34-127120
03-120	08-13682	16-10290	22-112	34-128120
03-124	08-15282	16-10390	22-113156	34-130120
03-12888	08-16682	16-10490	22-114	34-132120
03-13288	11-13688	16-10690	22-115156	34-134120
03-13688	11-15288	16-10790	22-119156	34-136120
03-140	11-15888	16-10890	22-120156	34-138120
03-14488		16-10990	22-121156	34-140120
03-14888	11-16488	16-11090	22-122156	34-208121
03-15288	11-16888	16-11690	22-123156	34-210121
03-15688	11-17288	16-11890	22-124156	34-214121
04-09682		16-12290	22-125156	3557E343
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04-100		16-50090	22-128	36-104123
04-101		16-50290	22-129	36-106123
04-10282		16-50490	22-130	36-108
04-103		16-51090 16-52090	22-134	36-112123
04-105		16-52290	22-505	36-114123
04-106		16-52390	22-506	36-116123
04-10782		16-52490	22-507	36-117123
04-10882	12-11282	16-52890	22-508	36-118123
04-10982		16-56090	24-106158	36-119123
04-11082		18-100108	26-10099	36-120123
04-11183	12-11582	18-102108	26-10499	36-122123
04-11282	12-11682	18-104108	28-10099	36-124123
04-11882	12-11882	18-106108	28-10499	36-126123
04-12082		18-108108	30-094118	36-127123
04-12482		18-110108	30-098118	36-128123
04-126		18-112108	30-100118	36-130123
04-12783	12-13082	18-113108	30-102118	36-132123
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04-52883	12-52083	20-104111	32-106158	38-260119
04-53283	12-52683	20-106111	32-110158	38-262119
04-53683	12-53083	20-107111	32-302158	38-302128
04-54083	12-54283	20-108111	32-306158	38-304128
04-54483	12-54483	20-109111	32-502159	38-312128
04-54883	13-11396	20-110111	32-504159	38-314128
04-55283	13-11496	20-112111	32-522159	38-352128
05-136	13-11696	20-116111	32-524	38-362128
05-16088	13-12296	20-120111	32-526	38-402127
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CB18057R		EB0603		K123		LU84M00838	LU98R014
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