

**38 NEW
PRODUCTS
ADDED!**

freud[®]

Precision Router Bits



freud[®]

Precisely what you need.

Router Bits

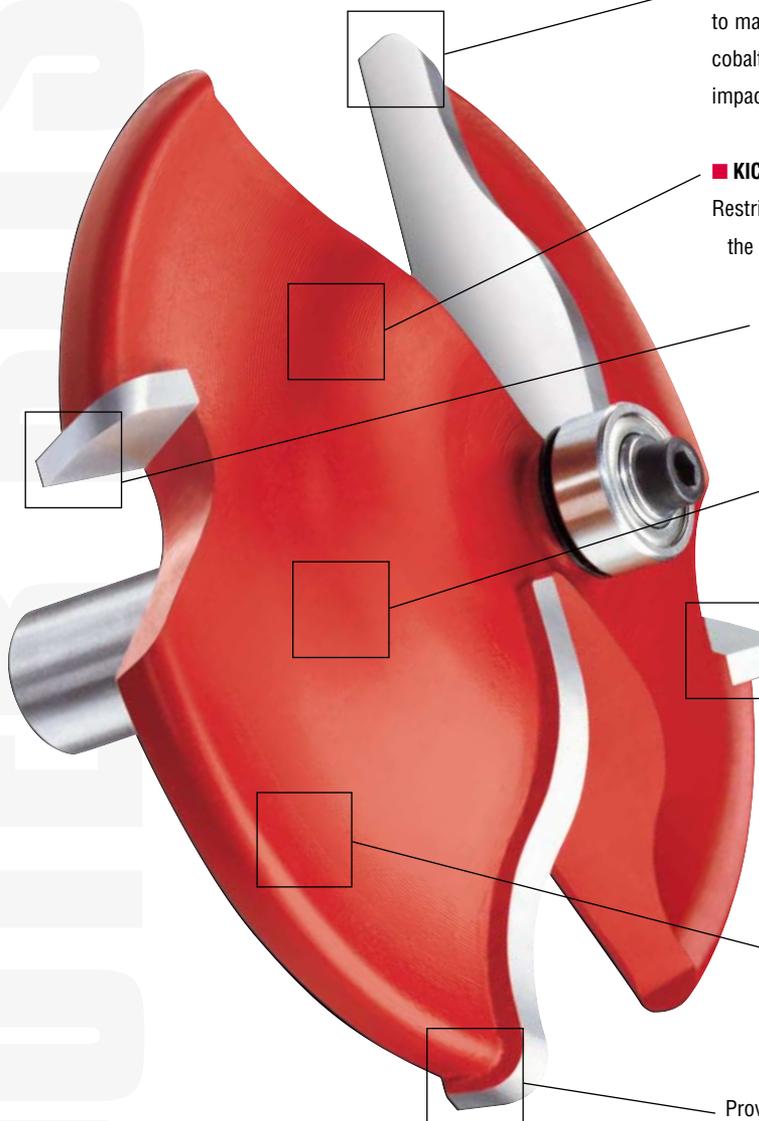
Serious woodworkers choose serious accessories. They choose Freud. An industry leader for over 50 years, the Freud name equals quality, precision and craftsmanship. Freud router bits feature tungsten carbide with titanium for maximum cutting life. Freud bits are individually balanced, giving a cut above the rest. So when you're looking for a serious router bit, look for the Freud red.



Precision Router Bits

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ROUTER BITS



■ **TiCo™ Hi-DENSITY CARBIDE BLENDS FOR MAXIMUM PERFORMANCE**

Freud develops and manufactures its own TiCo™ Hi-Density Carbide Blends to maximize bit life and material finish. Using precise formulations of cobalt, titanium and tungsten, Freud-made carbides range from the highly impact resistant to extremely hard.

■ **KICKBACK-REDUCING SHOULDER DESIGN**

Restricts tooth bite to 1.1 mm, reducing the effects of kickback from overfeeding.

■ **SHEAR ANGLE**

Lets the bit slice through the wood, producing a superior finish on all materials.

■ **RED Perma-SHIELD® COATING**

Guarantees less working friction and less resin adhesion while preventing the development of rust.

■ **TRI-METAL BRAZING**

Consists of copper sandwiched between two layers of silver alloy to create a stronger, more impact-resistant bond between the carbide and the bit. Also, helps reduce micro fractures from brazing.

■ **COMPUTER BALANCING**

Reduces vibration and chatter, resulting in clean, smooth profiles.

■ **MULTI-AXIS GRINDING**

Provides consistent relief angles on the entire cutting edge, which reduces burning and provides a flawless finish.

Straight, Spiral & Trim Bits

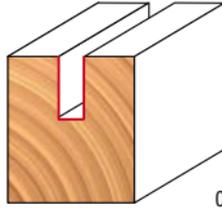
Freud's Straight, Spiral & Trim Bits combine precision hook and shear angles with thick MicroGrain carbide tips for the smoothest cuts and longest life. Whether you need a straight or up spiral bit for plunge cuts, a mortising or down spiral bit for smooth surface cuts, or a guided trim bit for countertops and template work, Freud offers a wide selection of premium bits to suit your application.

Double Flute Straight Bits

- Precise hook angle.
- End of bit relief allows for fast plunging.

Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.



04-132



Item Number	Overall Dia.	Carbide Height	Shank Dia.	Overall Length
04-096*	1/16"	1/4"	1/4"	1 3/8"
04-098*	3/32"	3/8"	1/4"	1 5/16"
04-100*	1/8"	3/8"	1/4"	1 3/4"
04-101*	5/32"	5/8"	1/4"	1 1/2"
04-102*	3/16"	1/2"	1/4"	2"
04-103*	3/16"	5/8"	1/4"	2"
04-104*	1/4"	1/2"	1/4"	2"
04-105*	1/4"	5/8"	1/4"	2"
04-106*	1/4"	3/4"	1/4"	2 1/4"
04-107*	1/4"	7/8"	1/4"	2 1/4"
04-108*	1/4"	1"	1/4"	2 1/2"
04-109*	1/4"	7/8"	1/4"	2 7/8"
04-110*	1/4"	1"	1/4"	2 7/8"
04-112	9/32"	1"	1/4"	2"
04-118	5/16"	1"	1/4"	2 1/2"
04-120	3/8"	7/8"	1/4"	1 7/8"
04-124	3/8"	1"	1/4"	2 1/2"
04-126	3/8"	1 1/4"	1/4"	2 11/16"
04-129	7/16"	1"	1/4"	2 1/2"
04-130	1/2"	3/4"	1/4"	2 1/4"
04-131	1/2"	7/8"	1/4"	1 7/8"
04-132	1/2"	1"	1/4"	2 1/8"
04-133	1/2"	1 1/4"	1/4"	2 3/4"
04-134	9/16"	3/4"	1/4"	2 1/8"
04-136	5/8"	3/4"	1/4"	2 1/8"
04-137	5/8"	1 1/4"	1/4"	2 3/4"
04-138	1 1/16"	3/4"	1/4"	2 1/8"
04-140	3/4"	3/4"	1/4"	2 1/8"
04-144	13/16"	3/4"	1/4"	2"
04-148	7/8"	3/4"	1/4"	2"
04-152	1"	3/4"	1/4"	2"
04-156	1"	1 1/8"	1/4"	2 1/16"
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	15/32"	3/4"	1/2"	2 13/32"
12-100	1/4"	3/4"	1/2"	2 3/8"
12-102	1/4"	7/8"	1/2"	2 7/8"
12-106	5/16"	1"	1/2"	2 3/4"
12-108	3/8"	1"	1/2"	2 5/8"
12-110	3/8"	1 1/4"	1/2"	2 7/8"
12-112**	13/32"	1"	1/2"	2 5/8"
12-113	7/16"	1 1/4"	1/2"	3 1/4"
12-115	7/8"	1 1/4"	1/2"	2 3/4"
12-116	1/2"	1"	1/2"	2 5/8"
12-118	1/2"	1 1/4"	1/2"	2 7/8"
12-122	1/2"	1 1/2"	1/2"	3 1/8"
12-124	1/2"	1 1/2"	1/2"	4 1/4"
12-128	1/2"	2"	1/2"	4 1/8"
12-130	1/2"	2 1/2"	1/2"	4 3/8"
12-134	9/16"	1 1/4"	1/2"	2 7/8"
12-136	5/8"	1"	1/2"	2 1/2"
12-138	5/8"	1 1/4"	1/2"	2 1/2"
12-140	5/8"	1 1/2"	1/2"	3"
12-142	5/8"	2"	1/2"	4"
12-148	1 1/16"	1 1/4"	1/2"	3"

NEW

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Double Flute Straight Bits

(continued from previous page)

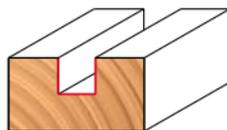
Item Number	Overall Dia.	Carbide Height	Shank Dia.	Overall Length
12-152	3/4"	1"	1/2"	2 1/2"
12-154	3/4"	1 1/4"	1/2"	3"
12-156	3/4"	1 1/2"	1/2"	3"
12-158	3/4"	2"	1/2"	3 1/2"
12-162	13/16"	1 1/4"	1/2"	3"
12-168	7/8"	1 1/4"	1/2"	3"
12-172	1"	1 1/4"	1/2"	3"
12-178	1 1/8"	1 1/2"	1/2"	3"
12-182	1 1/4"	1 1/2"	1/2"	2 7/8"
12-186	1 3/8"	1 1/4"	1/2"	3"
12-190	1 1/2"	1 1/4"	1/2"	3"
12-194	1 3/4"	1 1/4"	1/2"	3"
Undersized Plywood Bits				
04-111*	7/32"	3/4"	1/4"	2"
04-127	15/32"	3/4"	1/4"	2"
04-128	15/32"	7/8"	1/4"	2 3/8"
12-114	15/32"	1 1/4"	1/2"	2 7/8"
12-135	19/32"	1 1/4"	1/2"	2 7/8"
12-150	23/32"	1 1/4"	1/2"	2 7/8"
Metric Version				
04-502	2mm	5/32"	1/4"	1 1/2"
04-508	3mm	5/16"	1/4"	1 3/4"
04-512	5mm	15/32"	1/4"	2"
04-516	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"
12-544	16mm	1 1/4"	1/2"	2 3/4"

*Solid carbide

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

Single Flute Straight Bits

- Designed for high production work with a maximum amount of chip clearance.
- End of bit relief allows for fast plunging.



03-156

Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

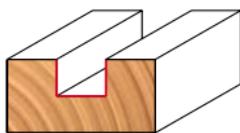


Item Number	Overall Dia.	Carbide Height	Shank Dia.	Overall Length
03-112*	1/8"	3/8"	1/4"	1 1/2"
03-116*	1/8"	1/2"	1/4"	2"
03-120*	1/8"	5/8"	1/4"	2"
03-124*	3/16"	3/8"	1/4"	1 1/2"
03-128*	3/16"	1/2"	1/4"	2"
03-132*	1/4"	1/2"	1/4"	2"
03-136*	1/4"	3/4"	1/4"	2 1/2"
03-140*	1/4"	1 1/2"	1/4"	2 1/2"
03-144*	1/4"	1"	1/4"	3"
03-148	5/16"	3/4"	1/4"	2 1/2"
03-152	5/16"	1"	1/4"	2 1/2"
03-156	3/8"	1 1/4"	1/4"	2 7/8"
05-136	1/4"	3/4"	3/8"	2 3/4"
05-160	3/8"	1 1/4"	3/8"	2 7/8"
05-164	1/2"	1"	3/8"	2 1/2"
11-136	1/4"	3/4"	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 1/16"
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	3/16"	1 1/4"	1/2"	2 1/2"
11-188	5/8"	1 1/4"	1/2"	2 1/2"

*Solid carbide

Up Spiral Router Bits

- Combines effective chip removal with a cut unmatched by standard straight bits.
- Computer-designed flutes provide chip removal required in production settings.
- Suited for cutting mortises and routing deep blind holes.



75-108

Application:

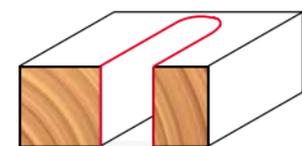
- Excellent for grooves and dadoes in all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.



Item Number	Overall Dia.	Carbide Height	Shank Dia.	Overall Length
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"
75-106*	3/8"	1 1/4"	1/2"	3"
75-108*	1/2"	1 1/4"	1/2"	3"
75-109*	1/2"	2"	1/2"	4"
75-202*	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"

*Solid carbide

Down Spiral Router Bits



76-108

- Ideal for top surface chip-free routing where chip removal is not a problem.
- Excellent for through cutting of material with a table-mounted router or a pin router.

- Reduces chipping when working with single-sided veneers or laminated materials.

Application:

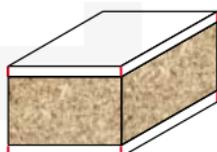
- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers, pin routers, hand-held and table-mounted portable routers.

Item Number	Overall Dia.	Carbide Height	Shank Dia.	Overall Length
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"
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"

*Solid carbide

8

Single Compression Bits



77-108

- Ideal for fast, chip-free routing where chip removal is not a problem.
- Combination of up and down shear flutes eliminates chipping on both sides of double-sided veneers or laminated materials.

Application:

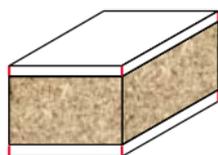
- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.	Carbide Height	Shank Dia.	Overall Length
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

Double Compression Bits

- Ideal for fine-finish, chip-free routing where chip removal is not a problem.
- Combination of up and down shear flutes eliminates chipping on both sides of double-sided veneers or laminated materials.



77-208



Application:

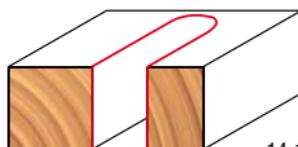
- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.	Carbide Height	Shank Dia.	Overall Length
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"

*Solid carbide

Stagger Bits

- Combine the balance of a double fluted bit with the speed and versatility of a single flute tool.
- Used extensively by table and countertop manufacturers worldwide.
- The 14-204 Compression Bit has opposing shears for an exceptionally clean edge on both the top and bottom of the cut.



14-104



9

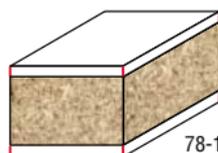
Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.	Carbide Height	Shank Dia.	Overall Length
14-102	3/8"	1 1/2"	1/2"	3 1/4"
14-104	1/2"	1 1/2"	1/2"	3 1/4"
14-106	1/2"	2 1/8"	1/2"	4"
14-204	1/2"	1 1/2"	1/2"	3 3/16"

Diamond Compression Bits

- Diamond-impregnated tips provide extreme durability when cutting manmade materials.
- Multiple up-shear and down-shear wings offer fast, chip-free cutting on both sides of double-sided veneers or laminated materials.



78-116

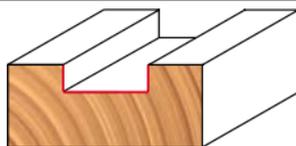


Application:

- Ideal for manmade, abrasive materials such as MDF and particleboard.
- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.	Carbide Height	Shank Dia.	Overall Length
78-116	1/2"	1"	1/2"	2 1/8"
78-136	5/8"	1"	1/2"	2 1/8"

Mortising Bits



- Deep center gullet provides maximum material removal without chip loading.
- Ideal for use with templates for setting butt hinges.

Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

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Item Number	Overall Dia.	Carbide Height	Shank Dia.	Overall Length
16-096	1 ¹ / ₃₂ "	1/2"	1/4"	2"
16-098	1 ⁵ / ₃₂ "	1/2"	1/4"	2"
16-100	1/2"	1/2"	1/4"	2"
16-102	5/8"	1/2"	1/4"	2"
16-103	2 ³ / ₃₂ "	1/2"	1/4"	1 ³ / ₄ "
16-104	3/4"	1/2"	1/4"	2"
16-106	1 ¹ / ₄ "	2 ⁹ / ₆₄ "	1/4"	2 ¹ / ₈ "
16-094**	7 ¹ / ₃₂ "	1/2"	1/2"	2 ¹ / ₄ "
16-107**	1 ¹ / ₃₂ "	1/2"	1/2"	2 ¹ / ₄ "
16-108	1 ¹ / ₄ "	1/2"	1/2"	2 ³ / ₈ "
16-109**	1 ⁵ / ₃₂ "	1/2"	1/2"	2 ¹ / ₄ "
16-110	1/2"	1/2"	1/2"	2 ³ / ₈ "
16-116	2 ³ / 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 ³ / ₃₂ "
16-128	1 ¹ / ₂ "	5/8"	1/2"	2 ¹⁷ / ₃₂ "

Top Bearing Mortising-Dado Bits

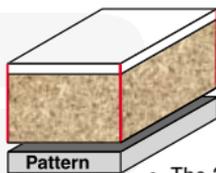
16-500	1/2"	3/4"	1/4"	2 ¹ / ₁₆ "
16-502	5/8"	3/4"	1/4"	2 ¹ / ₁₆ "
16-504	3/4"	3/4"	1/4"	2 ¹ / ₁₆ "
16-510	3/4"	3/8"	1/4"	2 ³ / ₃₂ "
16-560*	1/2"	3/16"	1/4"	2 ¹ / ₁₆ "
16-520	3/4"	3/8"	1/2"	2 ³ / ₃₂ "
16-522	1 ¹ / ₄ "	1 ⁵ / ₆₄ "	1/2"	2"
16-523	1 ¹ / ₄ "	1/2"	1/2"	2 ¹ / ₄ "
16-524	1 ¹ / ₄ "	3/8"	1/2"	2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

See pages 82-83 for replacement bearing item numbers.

Downshear Helix Flush Trim Bits



42-204

- Downshear cutting angle produces a slicing action for chip-free, splinter-free cuts on the top surface of laminates and veneers.
- 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 or pattern.

Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on portable or table-mounted routers for template work.

NEW
NEW

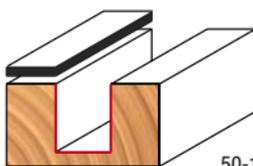
Item Number	Overall Dia.	Bearing Dia.	Carbide Height	Shank Dia.	Overall Length
42-202	3/4"	3/4"	1"	1/2"	3 ³ / ₈ "
42-204	3/4"	3/4"	2"	1/2"	4 ¹ / ₈ "

Top Bearing Flush Trim Bits

- Bits feature top-mounted bearings.
- Ideal for lettering or other template work where the piece is being grooved or routed out.

Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on portable or table-mounted routers for template work.



50-102



Item Number	Overall Dia.	Bearing Dia.	Carbide Height	Shank Dia.	Overall Length
50-098	5/16"	1/2"	1"	1/4"	2 ²² / 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 3/16"
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"

See pages 82-83 for replacement bearing item numbers.

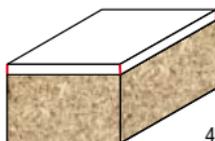
11

Bearing Flush Trim Bits

- Ideal for trimming cabinet laminate as well as pattern work.
- Bits feature two flute bits for faster cutting and three flute bits for a superior surface finish.

Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on portable or table-mounted routers.



42-100



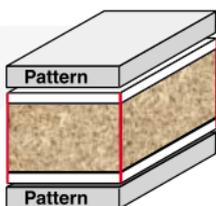
Item Number	Overall Dia.	Bearing Dia.	Carbide Height	Number of Flutes	Shank Dia.	Overall Length
42-080	7/8"	7/8"	1"	2	1/4"	3"
42-090	3/4"	3/4"	1"	2	1/4"	2 15/16"
42-100	3/8"	3/8"	1"	2	1/4"	2 13/16"
42-102	3/8"	3/8"	1/2"	2	1/4"	2 5/16"
42-104	1/2"	1/2"	1"	2	1/4"	2 13/16"
42-106	1/2"	1/2"	1/2"	2	1/4"	2 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"

See pages 82-83 for replacement bearing item numbers.

Top & Bottom Bearing Flush Trim Bit



50-501



- 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.

Application:

- Cuts all hardwoods, softwoods, plastic laminates, veneered plywood.
- Use on hand-held routers, laminate trimmers, and table-mounted portable routers.



50-509



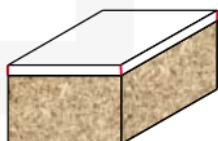
Item Number	Overall Dia.	Carbide Height	Bearing Dia.	Shank Dia.	Overall Length
50-501	1/2"	1 1/4"	1/4"	1/4"	3 5/16"
50-509	3/4"	1 3/8"	3/4"	1/2"	3 3/8"

12

Solid Carbide Flush Trim Bit



64-100



- Features Freud's exclusive blend of MicroGrain Carbide for longer cutting life.
- Cuts plastic laminate quickly and cleanly.
- Self-piloting feature eliminates the expense and upkeep of a ball bearing assembly.

Application:

- Cuts all plastic laminates.
- Use on portable routers and laminate trimmers for trimming plastic laminate.

Item Number	Overall Dia.	Carbide Height	Shank Dia.	Overall Length
64-100*	1/4"	3/8"	1/4"	1 1/2"
Bulk Pack (100 Pieces)				
64-100A	1/4"	1/4"	1/4"	1 1/2"

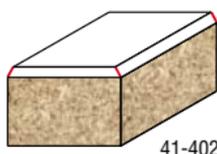
*Solid carbide

Flush & Bevel Trim Bits

- Designed to trim plastic laminate with either a straight edge or a bevel on a router equipped with a guide system.
- Bit 41-402 is self-guided and comes with two bearings to allow the bit to straight trim or 45° bevel trim.
- The two bearings on the 41-402 can also be used to vary the part of the bevel used for cutting to even-out wear on the bit.
- Bearing is also used to spread wear evenly on cutting edge.

Application:

- Cuts all plastic laminates.
- Use on portable routers and laminate trimmers equipped with a guiding system.



68-100

Item Number	Overall Dia.	Carbide Height	Minor Height	Angle	Shank Dia.	Overall Length
41-300	15/32"	1/2"	3/16"	30°	1/4"	1 25/32"
41-402	7/8"	5/8"	39/64"	45°	1/4"	2 1/4"
68-100*	1/4"	3/8"	1 1/64"	7°	1/4"	1 1/2"

*Solid carbide

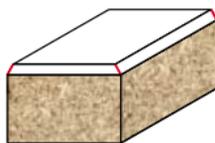
See pages 82-83 for replacement bearing item numbers.

Bevel Trim Bits

- Bit 66-100 trims and provides a 7° bevel to give a finished look to plastic laminate with a solid pilot.
- Bit 66-100 features Freud's solid MicroGrain Carbide for a longer cutting life.
- 41 Series Bits can provide a range of bevels from 8° to 45° on plastic laminate and feature a ball bearing guide.

Application:

- Cuts all plastic laminates.
- Use on portable routers and laminate trimmers for trimming plastic laminate.



41-102



66-100



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

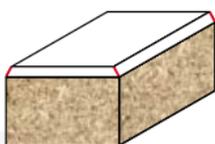
*Solid carbide

See pages 82-83 for replacement bearing item numbers.

Insert Bevel Trim Bits



43-204



- Replacement throw-away knives can be rotated for multiple cutting edges, so you always have a sharp edge.
- Item #CG12 for replacement knives.

Application:

- Cuts all plastic laminates.
- Use on portable routers and laminate trimmers equipped with a guiding system.

Item Number	Overall Dia.	Bearing Height	Carbide Height	Angle	Shank Dia.	Overall Length
43-204	1 ⁵ / ₁₆ "	3/4"	2 ⁹ / ₁₆ "	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"	1 1/32"	30°	1/4"	2 5/16"
43-216	1 23/64"	3/4"	1 5/64"	45°	1/4"	2 5/8"

Replacement Cutters

Item #	Length	Height	Thickness	Number of Cutting Edges
CG12	12mm	12mm	1.5mm	4

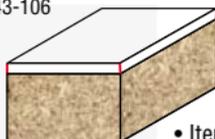
See pages 82-83 for replacement bearing item numbers.

Insert Flush Trim Bits

14



43-106



- Replacement throw-away knives can be rotated for multiple cutting edges, so you always have a sharp edge.
- Item #CG12 for replacement throw-away knives 43-106.
- Item #CG30 for replacement throw-away knives 43-108 and 43-128.

Application:

- Cuts all plastic laminates.
- Use on portable routers and laminate trimmers.

Item Number	Overall Dia.	Bearing Dia.	Carbide Height	Shank Dia.	Overall Length
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"

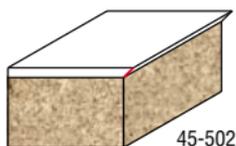
Replacement Cutters

Item #	Length	Height	Thickness	Number of Cutting Edges
CG12*	12mm	12mm	1.5mm	4
CG30*	12mm	30mm	1.5mm	2

See pages 82-83 for replacement bearing item numbers.

Laminate Miter Joint Bits

- Produce 90° miter joints in the edge of laminated surfaces.
- Prevents the dark line of the base material from showing.
- Feature Freud's exclusive blend of MicroGrain Carbide for longer cutting life.



Application:

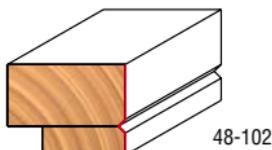
- Cuts all plastic laminates.
- Use on portable routers and laminate trimmers.

Item Number	Overall Dia.	Carbide Height	Bearing Dia.	Angle	Shank Dia.	Overall Length
45-502	1 3/8"	1/4"	1 3/8"	45°	1/4"	2 3/8"
45-522	1 3/8"	1/4"	1 3/8"	45°	1/2"	2 3/8"

See pages 82-83 for replacement bearing item numbers.

Flush Trim "V" Groove Bits

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



Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on portable or table-mounted routers.

Item Number	Overall Dia.	Small Dia.	Bearing Dia.	Carbide Height	Shank Dia.	Overall Length
48-102	5/8"	1/2"	1/2"	1"	1/4"	2 13/16"
48-112	5/8"	1/2"	1/2"	1"	1/2"	3 1/4"

Angle = 90°

See pages 82-83 for replacement bearing item numbers.



15

Panel Pilot Bits

- Carbide tips outlast high-speed steel and require fewer sharpenings.
- Drill-through point allows self-starting, while the pilot will act as a guide for template work.



Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on portable routers for template work.

Item Number	Overall Dia.	Carbide Height	Shank Dia.	Number of Flutes	Overall Length
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"

*Solid carbide

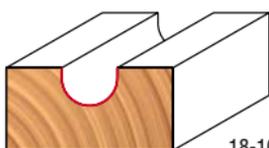


Edge Treatment & Grooving Bits

Choose Freud's edge treatment and grooving bits to add zest to your project. Add decorative edges and grooves to mouldings, plaques and furniture; create antique patterns; and produce unique designs. Freud's grooving bits plunge cut for superb fluting and sign making.

Round Nose Bits

- Provides a perfect radius groove every time.
- Produces several different styles of fluted millwork.
- Ideal for making signs or cutting decorative designs in cabinet doors.



18-108



Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.	Carbide Height	Large Radius	Shank Dia.	Overall Length
18-100*	1/8"	3/8"	1/16"	1/4"	2"
18-102*	3/16"	3/8"	3/32"	1/4"	2"
18-104*	1/4"	3/8"	1/8"	1/4"	2"
18-106	3/8"	3/8"	3/16"	1/4"	1 13/16"
18-108	1/2"	3/8"	1/4"	1/4"	1 13/16"
18-110	5/8"	7/16"	5/16"	1/4"	2"
18-112	3/4"	7/16"	3/8"	1/4"	2"
18-113	1"	3/4"	1/2"	1/4"	2 3/16"
18-114	1/4"	3/8"	1/8"	1/2"	2 1/4"
18-115	3/8"	3/8"	3/16"	1/2"	2 1/4"
18-116	1/2"	1 1/8"	1/4"	1/2"	2 13/16"
18-122	3/4"	1 1/4"	3/8"	1/2"	2 13/16"
18-126	1"	1 1/4"	1/2"	1/2"	2 13/16"
18-130	1 1/4"	3/4"	5/8"	1/2"	2 13/16"
18-134	1 1/2"	1 1/4"	3/4"	1/2"	2 3/4"
18-138	2"	1 1/4"	1"	1/2"	2 3/4"

Top Bearing Round Nose Bits

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

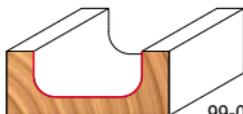
*Solid carbide

See pages 82-83 for replacement bearing item numbers.

17

Dish Carving Bits

- Designed to hog-out large amounts of wood.
- Excellent for making trays, coasters and raised letter signs.



99-026



Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.	Carbide Height	Large Radius	Shank Dia.	Overall Length
19-102	7/16"	1/2"	1/8"	1/4"	2"
19-104	1/2"	1/2"	1/8"	1/4"	2 1/8"
19-106	3/4"	5/8"	1/4"	1/4"	1 7/8"
19-126	3/4"	5/8"	1/4"	1/2"	2 5/8"
99-026	1 1/4"	19/32"	1/4"	1/2"	2 1/16"

Top Bearing Dish Carving Bits

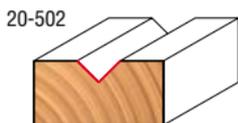
19-506	3/4"	5/8"	1/4"	1/4"	2 5/16"
19-576	3/4"	5/8"	1/4"	1/2"	2 5/8"
19-578	1 1/8"	5/8"	1/4"	1/2"	2 5/8"

See pages 82-83 for replacement bearing item numbers.



19-506

"V" Grooving Bits



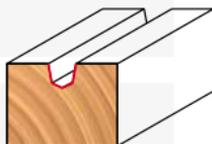
- Allows you to cut deep or shallow "V" grooves.
- Ideal for making signs and adding decorative accents to furniture and plaques.

Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.	Carbide Height	Angle	Shank Dia.	Overall Length
20-100	1/4"	1/4"	90°	1/4"	1 1/2"
20-102	3/8"	5/16"	90°	1/4"	1 3/4"
20-104	1/2"	7/16"	90°	1/4"	1 3/4"
20-106	5/8"	1/2"	90°	1/2"	2 1/4"
20-107	3/8"	1/2"	90°	1/2"	2 1/4"
20-108	3/4"	1/2"	90°	1/2"	2 1/4"
20-109	1/2"	1/2"	90°	1/2"	2 1/4"
20-110	7/8"	5/8"	90°	1/2"	2 1/4"
20-112	1"	5/8"	90°	1/2"	2 1/2"
20-116	1 1/2"	1"	90°	1/2"	3"
20-120	2"	1 1/4"	90°	1/2"	2 7/8"
20-152*	1/2"	1/2"	60°	1/4"	2"
20-154*	5/8"	11/32"	60°	1/4"	1 15/16"
Top Bearing Bits					
20-502	1/2"	7/16"	90°	1/4"	2 1/4"
20-508	3/4"	5/8"	90°	1/2"	2 1/4"

18



70-102

*Solid carbide
See pages 82-83 for replacement bearing item numbers.

"V" Veining Bit

- Comprised of solid MicroGrain Carbide for a longer cutting life.
- Produces an attractive double "V" groove to accent furniture, cabinet doors or millwork.

Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.	Small Dia.	Carbide Height	Minor Height	Shank Dia.	Overall Length
70-102*	1/4"	3/16"	7/32"	3/64"	1/4"	1 1/2"

*Solid Carbide

Cove & Bead Groove Bits



39-102



- Creates decorative grooves in moulding and furniture.

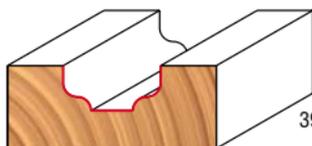
Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.	Small Dia.	Carbide Height	Large Radius	Shank Dia.	Overall Length
39-100	3/4"	3/16"	3/8"	3/32"	1/4"	1 5/8"
39-101	3/4"	3/16"	1/2"	3/32"	1/4"	1 3/4"
39-102	1"	3/4"	1/2"	1/8"	1/4"	1 3/4"
39-112	1 3/4"	25/32"	1/2"	5/32"	1/2"	2"

Ogee Groove Bits

- Produces decorative grooves in moulding and furniture.
- Use with a guide to create an ogee edge profile.



39-154



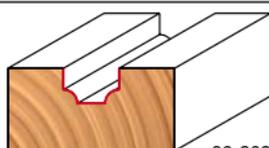
Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.	Small Dia.	Carbide Height	Large Radius	Shank Dia.	Overall Length
39-152	1/2"	1/4"	5/16"	1/16"	1/4"	1 9/16"
39-154	7/8"	3/8"	13/32"	1/8"	1/4"	1 11/16"

Ovolo Bits

- Ideal for cutting the decorative groove in French Provincial style doors and cabinets.
- Creates decorative grooves in moulding and furniture.



39-202



Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.	Small Dia.	Carbide Height	Large Radius	Shank Dia.	Overall Length
39-202	1/2"	1/4"	5/16"	1/8"	1/4"	1 3/4"
39-204	7/8"	1/2"	1/2"	3/16"	1/4"	1 3/4"
39-205	7/8"	1/4"	5/8"	1/4"	1/4"	2"
39-206	1"	1/2"	1/2"	1/4"	1/4"	1 3/4"
39-208	1 1/4"	1/2"	9/16"	3/8"	1/4"	1 13/16"
39-210	1 1/2"	1/2"	3/4"	1/2"	1/4"	2"
39-226	1"	1/2"	1/2"	1/4"	1/2"	2"
39-228	1 1/4"	1/2"	9/16"	3/8"	1/2"	2 1/16"
39-230	1 1/2"	1/2"	3/4"	1/2"	1/2"	2 1/4"
39-232	1 3/4"	1/2"	7/8"	5/8"	1/2"	2 3/8"
39-234	2"	1/2"	1"	3/4"	1/2"	2 1/2"
39-236	2 1/4"	1/2"	1 1/8"	7/8"	1/2"	2 5/8"
39-238	2 1/2"	1/2"	1 5/16"	1"	1/2"	2 13/16"
39-252	1 1/8"	1/2"	1 1/32"	1/4"	1/2"	2 23/32"

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"	2 1/2"

See pages 82-83 for replacement bearing item numbers.

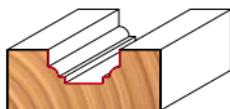
19



39-578

Classical Beading Groove Bits

- Produces decorative grooves in moulding and furniture.
- Simple bead and flat bottom design adds depth to any surface.



39-306



Application:

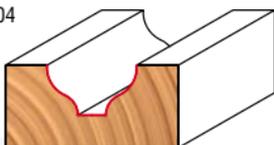
- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.	Small Dia.	Carbide Height	Minor Height	Large Radius	Shank Dia.	Overall Length
39-302	1/2"	2 1/64"	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"

Standard Ogee Groove Bit



99-004



- Accents any project with a slight, decorative groove.
- Can produce a decorative edge when used with an edge guide.

Application:

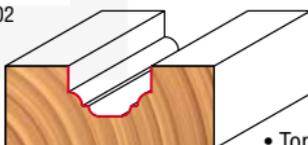
- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers.

Item Number	Overall Dia.	Small Dia.	Carbide Height	Large Radius	Shank Dia.	Overall Length
39-240	3/4"	1/4"	1/2"	1/4"	1/4"	1 3/4"
99-004	1 3/16"	1/4"	29/64"	15/64"	1/2"	1 15/16"

Top Bearing Classical Cove & Bead Groove Bits



39-502



- Produces a cove and bead groove with a flat bottom to add depth to furniture or millwork.
- Can create a decorative edge profile.
- Top mounted bearing allows you to do template work without a template guide set.

Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on hand-held and table-mounted portable routers.

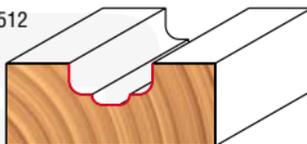
Item Number	Overall Dia.	Small Dia.	Carbide Height	Large Radius	Small Radius	Shank Dia.	Overall Length
39-500	3/4"	13/32"	7/16"	3/32"	3/32"	1/4"	2 1/8"
39-502	3/4"	1/4"	7/16"	1/8"	3/32"	1/4"	2 1/8"
39-504	1 7/64"	21/32"	1/2"	5/32"	1/8"	3/8"	2 1/4"
39-506	1 3/8"	27/32"	9/16"	3/16"	5/32"	3/8"	2 7/16"

See pages 82-83 for replacement bearing item numbers.

Top Bearing Double Cove Groove Bits



39-512



- Carves an attractive double cove design that accents any project.

- Can create a decorative edge profile.
- Top mounted bearing allows you to do template work without a template guide set.

Application:

- Cuts all composition materials, plywood, hardwood, and soft wood.
- Use on hand-held and table-mounted portable routers.

Item Number	Overall Dia.	Small Dia.	Carbide Height	Large Radius	Small Radius	Shank Dia.	Overall Length
39-512	3/4"	11/32"	3/8"	1/8"	3/32"	1/4"	2 1/16"
39-514	1 7/64"	5/8"	7/16"	5/32"	1/8"	3/8"	2 3/16"
39-516	1 3/8"	27/32"	1/2"	3/16"	5/32"	3/8"	2 5/16"

See pages 82-83 for replacement bearing item numbers.