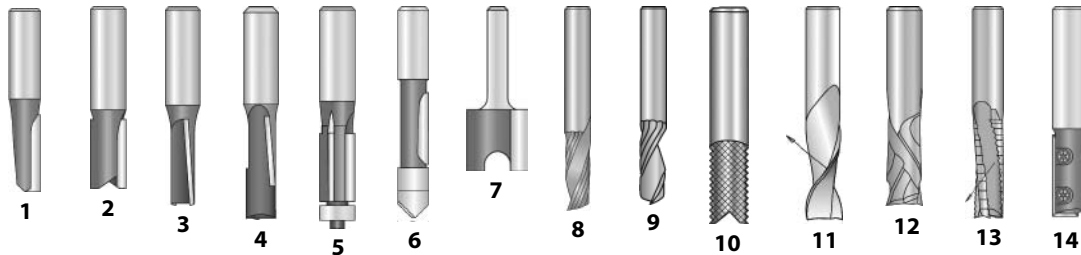


ROUTER BIT SELECTION & TERMINOLOGY

Note: All router bits are carbide-tipped bit unless stated otherwise.



1. Single Edge (1 Flute) Router Bits - Used when the speed of the cut (feed-rate) is primary and the finish is secondary. Available on certain plunge bits.

2. Double Edge (2 Flute) Router Bits - Used when the finish is primary and feed-rate is secondary. Most router bits have 2 flutes.

3. 3" Down-Shear Router Bits - Straight plunge new down-shear plunge with upper ball bearing and Supertrim™ are recommended when the finish from a standard bit is inadequate or the horsepower is low. Shear action cuts a smaller portion of the workpiece at one time due to a radial flute design. Down-shear is not intended to be used 'inverted', as in a router table or shaper.

4. Stagger-Tooth Router Bits - Considered 2 flute but the cutting edge is split (staggered 180) between the two flutes. These tools combine the speed and chip clearance of one flute bits, with the strength and balance of two flute bits.

5. Flush Trim (2 Flute, 3 Flute and 4 Flute) Router Bits Available on some trim bits, spirals and insert bits. This design will provide an extremely smooth finish on certain laminates that tend to chip easily.

6. Panel Pilot Router Bits - Have a plunge point and a pilot that can serve as an edge guide. Generally used by mobile home and trailer manufacturers.

7. Mortising Bits - Have a large gullet between the two flutes for better chip removal during mortising type cuts. Screw-type bits are normally used in mortising jigs and door machines.

8. Solid Carbide Plastic (O) Flute 'Up-Cut' & 'Down-Cut' Router Bits - Used to produce super clean cuts, especially in acrylic materials (Plexiglas®, Lucite®), other plastics, solid surface and wood.

9. Solid Carbide Aluminum (O) Flute 'Up-Cut' & 'Down-Cut' Router Bits Specifically designed for cutting aluminum, brass, copper and other non-ferrous metals.

10. Solid Carbide Router Bits - (Diamond pattern) are recommended for highly abrasive materials such as fiberglass, tile, etc.

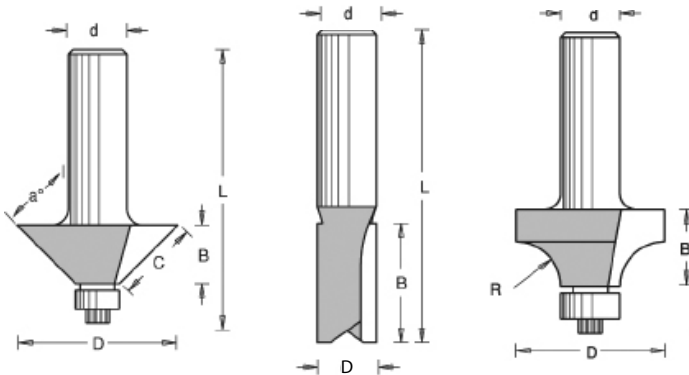
11. Spiral Flute 'Up-Cut' & 'Down-Cut' Router Bits - Recommended for deeper mortising where chip removal is essential to continuing the cut. Also used for some plastics and solid-surface materials such as Corian®, etc.

12. Solid Carbide Compression Spiral Bits - Designed for CNC applications requiring high feed rates and a clean finish. Particularly suitable for double-sided melamine or laminated material. Choose either single flute for the highest possible feed rate or double flute for the best finish.

13. Chipbreaker Bits - Specially ordered for 3/4" shank CNC applications. Designed to cut chipboard and MDF at high automatic feed-rates found on CNC machines. Each flute is ground so that the chip breakers are staggered to each other, giving a straight cut. (Two flute only). Also available as standard with certain types of spiral bits.

14. Insert Tooling - Long term cost efficiency on high-volume or repeated work. Cutter diameters remain constant for a high degree of accuracy and never require re-sharpening.

ROUTER BIT TERMINOLOGY



ROUTER TOOL TERMINOLOGY

Cutting Diameter ('D') - Largest cutting diameter of the tool and is represented in fractions, decimals and/or millimeters.

Cutting Length ('B or C') - Length or 'depth' of the cutting edge. This dimension usually represents the cutting edge length parallel to the length of the shank. Represented in fractions and/or millimeters.

Shank Diameter ('d') - Largest diameter of the shank and is equivalent to the router collet inside diameter that is necessary to use the tool. This dimension is represented in fractions.

Overall Length ('L') - Total length of a router bit from the top of the shank to the bottom of the tool at its furthestmost point. This dimension is represented in fractions and/or millimeters.

Radius ('R') - One-half the diameter of a complete circle and is shown in fractions and/or millimeters.

Bevel Angle ('a°') - Angle formed between the cutting tool edge and a straight line drawn parallel or perpendicular to the shank length and is measured in degrees.

Rake Angle ('T') - Angle (or 'hook') of the cutting tool tip in relationship to a straight line drawn perpendicular through the center of the tool. This dimension is measured in degrees.

Primary Radial Clearance ('P') - Relief grind on the tip of the tool and is measured in degrees.

Secondary Radial Clearance ('O') - Combined relief grind of the primary clearance and the clearance ground into the body of the tool. This dimension is measured in degrees.

Penetration Clearance ('S') - Angle formed between the cutting tool edge and a straight line drawn perpendicular to the shank of the tool and is measured in degrees. This angle allows gradual penetration into the material.

Web Diameter ('N') - Thickness of the ground steel body of the tool, including the heel area ('M'). The web must be of adequate thickness to withstand industrial routing applications.

CARBIDE TIP & HIGH SPEED STEEL BIT

Single Flute, 1/4" and 1/2" Shank

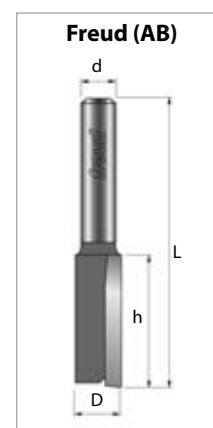
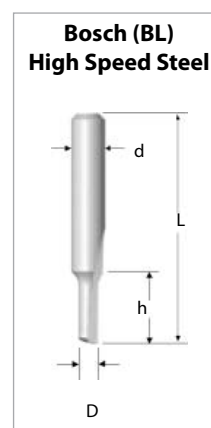
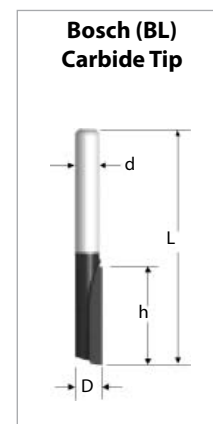
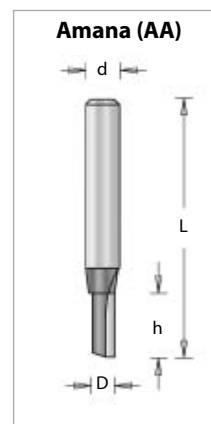


- Application: General stock removal at fast feed rates; single flute designed for roughing operations where high production feed rates are essential
- Single-flute bits should be used where cut speed is more important than cut finish
- Making one cut per revolution is faster than making two or three
- Improved chip clearance is possible with a single flute, resulting in faster cuts
- Cuts all composite materials, plywoods, hardwoods, and softwoods
- Can be used on CNC and other automatic routers as well as handheld and table routers

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)				
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
1/4" SHANK - CARBIDE TIP BIT				
AA45100	1/8"	7/16"	1/4"	2"
AA45102	3/16"	7/16"	1/4"	2"
BL85279M	3/16"	7/16"	1/4"	2"
AA45108	1/4"	1"	1/4"	2-1/4"
BL85410M	1/4"	1"	1/4"	2-1/4"
AB03-140	1/4"	1-1/2"	1/4"	2-1/2"
1/4" SHANK - HIGH SPEED STEEL				
BL85152	1/8"	5/8"	1/4"	1-31/32"
BL85154	1/4"	1"	1/4"	2-1/4"
1/2" SHANK - CARBIDE TIP BIT				
AA45302	3/8"	1"	1/2"	2-3/4"
BL85409M	3/8"	1"	1/2"	2-3/4"
BL85425M	1/2"	3/4"	1/2"	2-3/8"
AA45308	1/2"	1-1/4"	1/2"	2-7/8"
BL85426M	1/2"	1-1/4"	1/2"	3-1/8"
AA45310	1/2"	1-1/2"	1/2"	2-1/8"
AB11-176	1/2"	2"	1/2"	4-1/8"
AA45312	1/2"	2"	1/2"	4-1/4"
BL85264M	1/2"	2"	1/2"	4-1/4"



SECTION Y BITS & CUTTERS

STRAIGHT PLUNGE ROUTER BITS

CARBIDE TIP & HIGH SPEED STEEL BIT

2 Flute, 1/4" & 3/8" Shank

- Application: General stock removal with a fine finish, designed to give a smooth cut
- Use a two-flute bit where fine finish is paramount
- Two flutes balance the bit, eliminating vibration that can degrade the cut finish
- Two cuts per revolution yield a smooth surface, but feed rate is slightly reduced
- Cuts all composite materials, plywoods, hardwoods, and softwoods

Packing & Sold In: Each

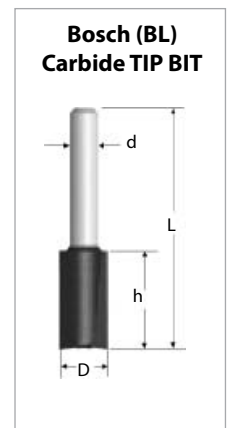
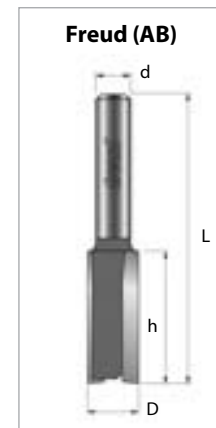
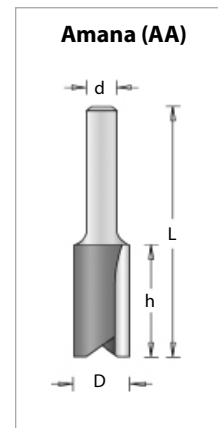


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Item#	DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
1/4" SHANK - CARBIDE TIP BIT				
AA45190	1/16"	3/16"	1/4"	1-5/8"
AA45192	3/32"	1/4"	1/4"	1-3/4"
AA45200	1/8"	7/16"	1/4"	2"
AA45201	5/32"	7/16"	1/4"	2"
AA45202	3/16"	7/16"	1/4"	2"
AA45203	15/64"	3/4"	1/4"	2"
AA45204	1/4"	1/2"	1/4"	2"
AA45208	1/4"	3/4"	1/4"	2"
BL85221M	1/4"	5/8"	1/4"	2"
BL85250M	1/4"	7/8"	1/4"	2-1/8"
AA45210	1/4"	1"	1/4"	2-1/4"
BL85613M	1/4"	1"	1/4"	2-1/4"
AA45211	1/4"	1"	1/4"	2-7/8"
BL85459M	1/4"	1"	1/4"	2-7/8"
AA45212	9/32"	1"	1/4"	2-1/4"
BL85223M	9/32"	1"	1/4"	2-1/4"
AA45214	5/16"	1"	1/4"	2-1/4"
BL85224M	5/16"	1"	1/4"	2-1/4"
AB04-118	5/16"	1"	1/4"	2-1/2"
AA45218	3/8"	1"	1/4"	2-1/4"
AA45220	3/8"	1-1/4"	1/4"	2-1/2"
AA45222	7/16"	1"	1/4"	2-1/8"
BL85226M	7/16"	1"	1/4"	2-1/8"
AA45223	15/32"	3/4"	1/4"	2"
AA45226	1/2"	1"	1/4"	2-1/8"
BL85227M	1/2"	1"	1/4"	2-1/4"
AA45227	9/16"	3/4"	1/4"	2-1/8"
DIMENSIONS				



Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
1/4" SHANK - CARBIDE TIP BIT				
AA45228	5/8"	3/4"	1/4"	2"
BL85230M	5/8"	3/4"	1/4"	2"
AA45230	3/4"	3/4"	1/4"	2"
BL85232	3/4"	3/4"	1/4"	2"
AA45232	13/16"	3/4"	1/4"	2"
BL85262M	13/16"	3/4"	1/4"	2"
AA45234	7/8"	3/4"	1/4"	2"
AA45236	1"	3/4"	1/4"	2"
1/4" SHANK - HIGH SPEED STEEL				
BL85096	1/4"	3/4"	1/4"	2'
BL85180	1/4"	1-1/8"	1/4"	2-3/8"
3/8" SHANK - CARBIDE TIP BIT				
AA45404	3/8"	1-1/4"	3/8"	3-3/8"
AA45406	1/2"	1"	3/8"	2-1/2"
DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)				

CARBIDE TIP BIT

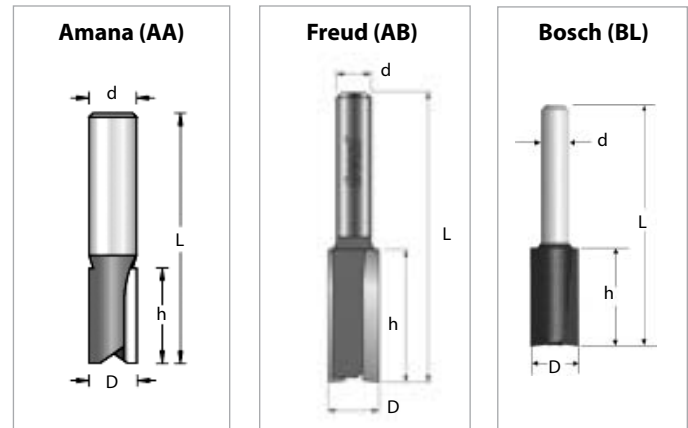
2 Flute, 1/2" Shank

- Application: General stock removal with a fine finish, designed to give a smooth cut
- Use a two-flute bit where fine finish is paramount
- Two flutes balance the bit, eliminating vibration that can degrade the cut finish
- Two cuts per revolution yield a smooth surface, but feed rate is slightly reduced
- Cuts all composite materials, plywoods, hardwoods, and softwoods

Packing & Sold In: Each



Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
1/2" SHANK - CARBIDE TIP BIT				
AA45408	1/4"	3/4"	1/2"	2-1/2"
BL85460M	1/4"	3/4"	1/2"	2-1/2"
AB12-102	1/4"	7/8"	1/2"	2-7/8"
AA45410	5/16"	3/4"	1/2"	2-1/2"
AA45412	5/16"	1"	1/2"	2-3/4"
AA45413	3/8"	3/4"	1/2"	2-1/2"
AB12-108	3/8"	1"	1/2"	2-5/8"
AA45414	3/8"	1"	1/2"	2-3/4"
BL85241M	3/8"	1"	1/2"	2-3/4"
AA45415	3/8"	1-1/4"	1/2"	3"
AA45416	7/16"	1-1/4"	1/2"	3"
AA45425	15/32"	1-1/4"	1/2"	2-7/8"
AA45418	1/2"	1"	1/2"	2-5/8"
AB12-116	1/2"	1"	1/2"	2-5/8"
BL85427M	1/2"	1"	1/2"	2-5/8"
AA45420	1/2"	1-1/4"	1/2"	2-7/8"
AA45422	1/2"	1-1/2"	1/2"	3-1/8"
AB12-122	1/2"	1-1/2"	1/2"	3-1/8"
BL85242M	1/2"	1-1/2"	1/2"	3-1/8"
AA45424	1/2"	1-1/2"	1/2"	4-1/4"
AB12-128	1/2"	2"	1/2"	4-1/8"
BL85251M	1/2"	2"	1/2"	4-1/4"
AA45426	1/2"	2"	1/2"	4-1/4"
AB12-130	1/2"	2-1/2"	1/2"	4-3/8"
AA45427	1/2"	2-1/2"	1/2"	4-1/2"
BL85252M	1/2"	2-1/2"	1/2"	4-1/2"
AA45429	17/32"	1-1/4"	1/2"	2-7/8"
AA45428	9/16"	1-1/4"	1/2"	2-7/8"



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)				
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
1/2" SHANK - CARBIDE TIP BIT				
AA45437	19/32"	1-1/4"	1/2"	2-7/8"
AB12-138	5/8"	1-1/4"	1/2"	2-1/2"
AA45432	5/8"	1-1/4"	1/2"	2-7/8"
BL85454M	5/8"	1-1/4"	1/2"	2-7/8"
AA45435	21/32"	1-1/4"	1/2"	2-7/8"
AA45438	3/4"	1"	1/2"	2-5/8"
AA45440	3/4"	1-1/4"	1/2"	2-7/8"
BL85265M	3/4"	1-1/4"	1/2"	2-7/8"
AA45441	3/4"	2"	1/2"	3-5/8"
AA45443	25/32"	1-1/4"	1/2"	2-7/8"
AA45444	13/16"	1-1/4"	1/2"	2-7/8"
AA45446	7/8"	1-1/4"	1/2"	2-7/8"
AA45448	1"	1-1/4"	1/2"	2-7/8"
AA45447	1"	2"	1/2"	3-5/8"

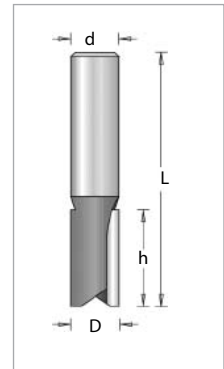
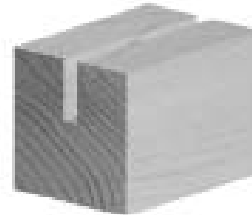
CARBIDE TIP PRODUCTION BIT WITH 10° HOOK 2 Flute, 1/4" & 1/2" Shank



- Application: Designed for high production operations where long tool life is the primary concern
- 10° hook angle produces aggressive cuts in dense and abrasive materials
- Excellent for solid wood, MDF, plywood, acrylics and other difficult to machine materials
- Results in a fast feed rate without a significant compromise of cut quality

Packing & Sold In: Each

Item#	DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA43200	1/8"	7/16"	1/4"	2"
AA43210	1/4"	1"	1/4"	2"
AA43422	1/2"	1-1/2"	1/2"	3-1/8"
AA43426	1/2"	2"	1/2"	4-1/4"



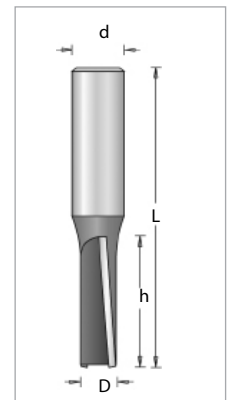
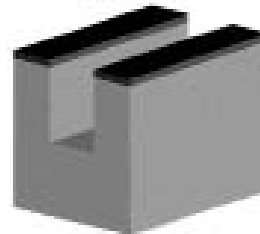
CARBIDE TIP PRODUCTION BIT WITH 3° DOWN-SHEAR 2 Flute, 1/2" Shank



- Application: Designed primarily for production applications where the router is placed above the work piece
- Down-shear cutting action slices slightly downward to prevent chipping or tearing of the veneer or coating
- Augers chips away from the router
- Excellent for working with composition board and melamine

Packing & Sold In: Each

Item#	DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA45414PS	3/8"	1"	1/2"	2-3/4"
AA45420PS	1/2"	1-1/4"	1/2"	2-7/8"
AA45422PS	1/2"	1-1/2"	1/2"	3-1/8"
AA45426PS	1/2"	2"	1/2"	4-1/4"



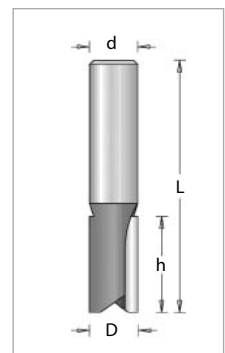
UNDERSIZED PLYWOOD DADO CARBIDE TIP BIT 2 Flute, 1/2" Shank



- Application: Cut dados and grooves dimensioned perfectly for plywood, flakeboard and other material
- Used when standard size bits are too large. Plywood thickness 3/4" (minus 1/52")

Packing & Sold In: Each

Item#	DIMENSIONS			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA45445	23/32"	1-1/4"	1/2"	2-7/8"



STRAIGHT PLUNGE SOLID CARBIDE BIT 2 Flute, 1/4" Shank

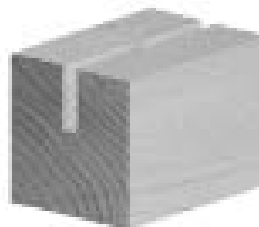
- Applications: For high volume, high speed cutting in dense natural woods and abrasive wood composites
- Solid carbide dissipates heat more uniformly, extending tool life
- 2 flute bits cut more slowly than single flute bits, but leave a smooth finish
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers

Packing & Sold In: Each



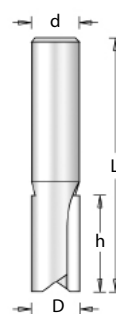
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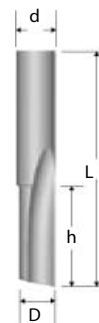


Item#	DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AB04-096	1/16"	1/4"	1/4"	1-5/8"
AB04-100	1/8"	3/8"	1/4"	1-3/4"
BL85213M	1/8"	7/16"	1/4"	2"
BL85214M	3/16"	7/16"	1/4"	2"
AB04-102	3/16"	1/2"	1/4"	2"
AB04-105	1/4"	5/8"	1/4"	2"
AB04-108	1/4"	1"	1/4"	2-1/2"
AA43828	1/4"	1"	1/4"	2-7/8"

Amana (AA)



Bosch (BL)



Freud (AB)



STAGGERTOOTH PLUNGE CARBIDE TIP BIT 2 Flute, 1/2" Shank

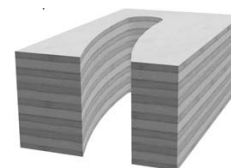
- Application: Smooth, fast cutting in thick materials
- Excellent for cutting dense or abrasive man-made materials and panel goods
- Cuts all composite materials, plywoods, hardwoods, and softwoods
- Bit has two cutting edges, each only half the flute length, located 180° apart, one high and one low
- Combines the speed and chip-clearance of a single flute bit with the strength and balance of a two flute bit

Packing & Sold In: Each



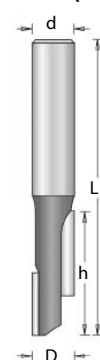
BOSCH

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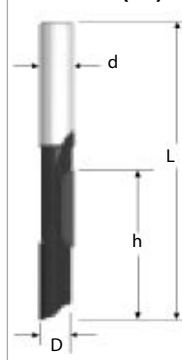


Item#	DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA51306	1/2"	1-1/2"	1/2"	3-1/8"
AA51308	1/2"	2"	1/2"	4-1/4"
AB14-106	1/2"	2-1/8"	1/2"	4"
AA51310	1/2"	2-1/4"	1/2"	4-1/2"
BL85278M	1/2"	2-1/4"	1/2"	4-1/2"

Amana (AA)



Bosch (BL)



Freud (AB)



STAGGERTOOTH OPPOSITE-SHEAR CARBIDE TIP BIT

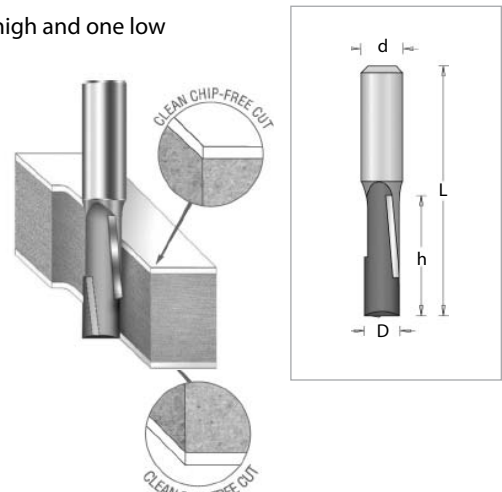
2 Flute, 1/2" Shank



- Application: Smooth, fast cutting in thick materials
- Bit has two cutting edges, each only half the flute length, located 180° apart – one high and one low
- Combines the speed and chip clearance of a single flute bit with the strength and balance of a two flute bit
- On a through cut, it shears down on both surfaces at the same time
- Excellent for working double-sided melamine, plywood, laminates, and veneers, as well as solid surface materials

Packing & Sold In: Each

Item#	DIMENSIONS (SORTED BY CUTTING DEPTH)			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA51320	1/2"	1-1/2"	1/2"	3-1/8"
AA51324	1/2"	2"	1/2"	4-1/8"



PANEL PILOT SOLID CARBIDE & CARBIDE TIP BIT

Single Flute, 1/4", 3/8" & 1/2" Shank

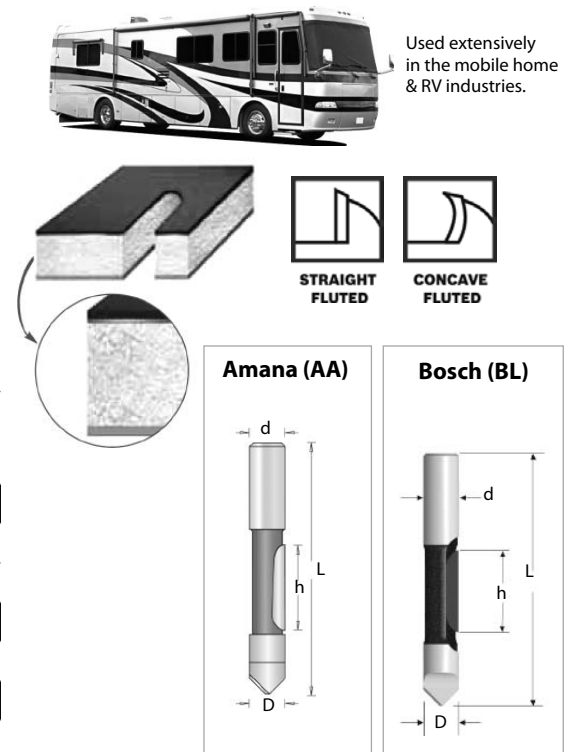


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- Application: For window and door cutouts in abrasive insulation materials, plywood and paneling
- Used extensively in the mobile home and RV industries
- The drill through point allows self-starting, and the integral pilot acts as a guide for template work
- Single flute bit cuts fast and produces an excellent finish
- Concave fluted grind offers a faster cut over the straight fluted grind bits

Packing & Sold In: Each

	DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)				
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	Flute Grind Type
1/4" SHANK - CARBIDE TIP BIT					
AA45506	1/4"	3/4"	1/4"	2-1/2"	Concave
BL85244M	1/4"	3/4"	1/4"	2-1/2"	Concave
3/8" SHANK - CARBIDE TIP BIT					
AA45508	3/8"	1"	3/8"	3"	Concave
1/2" SHANK - CARBIDE TIP BIT					
AA45510	1/2"	1-3/16"	1/2"	3-1/2"	Concave

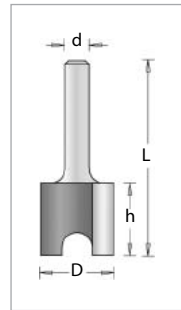


MORTISING CARBIDE TIP BIT

2 Flute, 1/4" & 1/2" Shank

- Application: For cutting shallow mortises for hinges and locksets
- Designed to produce an exceptionally clean cut with crisp edges
- Large gullet between the two flutes allows greater chip clearance and removal

Packing & Sold In: Each



A proper mortising bit, as shown, should have a large gullet between the two flutes. This allows greater chip clearance and removal.

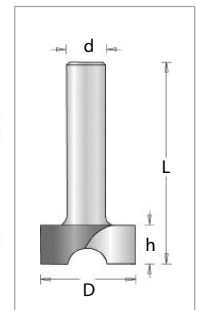
DIMENSIONS (SORTED BY CUTTING DIAMETER)				
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
1/4" SHANK				
AA45500	1/2"	3/4"	1/4"	2"
AA45502	5/8"	3/4"	1/4"	2"
AA45504	3/4"	3/4"	1/4"	2"
1/2" SHANK				
AA45505	1-1/4"	3/4"	1/2"	2-1/8"

MORTISING DOWN-SHEAR CARBIDE TIP BIT

2 Flute, 1/2" Shank

- Application: Intended for hinge mortising, this bit is also an excellent choice for cutting laps and tenons
- The sides and bottom of the cut are exceptionally smooth
- The down-shear design reduces chipping along the top edge of the cut, especially in laminates, veneered plywood and MDF
- Large gullet between the two flutes allows greater chip clearance and removal

Packing & Sold In: Each



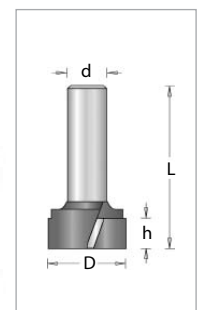
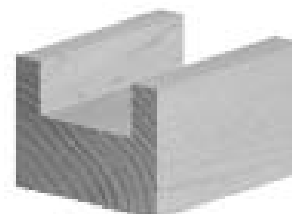
DIMENSIONS				
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA45580	1-1/4"	1/2"	1/2"	2"

MORTISING BOTTOM CLEANING CARBIDE TIP BIT

2 Flute, 1/2" Shank

- Application: Intended for broad, very shallow cuts, where an exceptional finish is desired
- Use it to clean up previously cut dadoes and grooves, or for surfacing cuts
- The up-shear design improves chip removal, while the cutting edges produce a smooth surface

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER)				
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA45562	3/4"	7/16"	1/2"	2-1/2"
AA45564	1"	7/16"	1/2"	2-1/2"
AA45566	1-1/2"	5/8"	1/2"	2-3/4"

SECTION Y BITS & CUTTERS

SPIRAL ROUTER BITS

SPIRAL FLUTE UP CUT & DOWN CUT SOLID CARBIDE PLUNGE BIT

2 & 3 Flute, 1/4" & 1/2" Shank

- Application: Cutting mortises and routing deep blind holes
- Spiral-flute bits combine a shearing action which yields an exceptionally clean, accurate cut while the augering action clears chips from the cut
- "Up-Cut" bit shears from the bottom up, allowing deeper penetration with less stress on the tool
- "Down-Cut" bit shears from the surface down, leaving a smooth edge at the surface
- 3 flute bits should be used when a high quality finish is needed
- Excellent for creating grooves and dado cuts in softwood, hardwoods, plywood and composite materials
- Typically used in CNC machines and other automatic routers, but can also be used with handheld and table-mounted portable routers

Packing & Sold In: Each

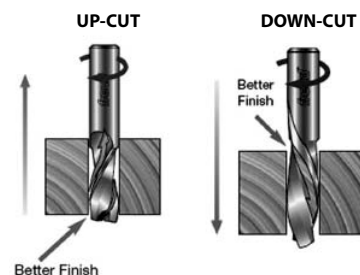
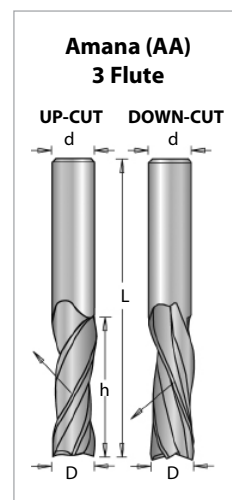
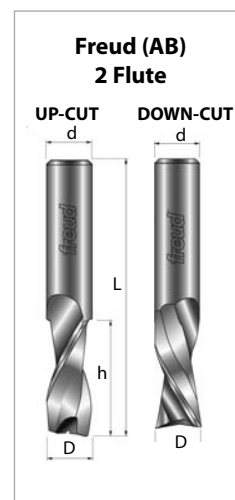
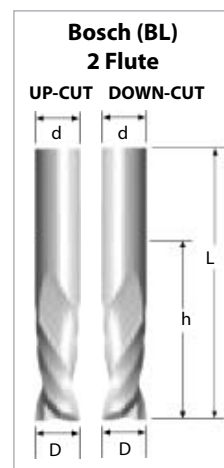
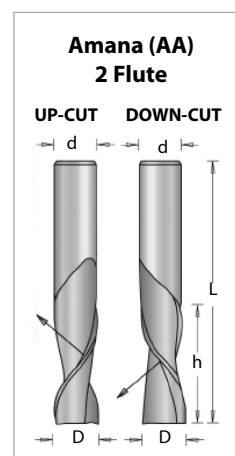


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Cut Type		DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)			
Upcut Item #	Downcut Item #	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
1/4" SHANK - 2 FLUTE					
AA46100	AA46200	1/8"	1/2"	1/4"	2"
AA46101	AA46201	3/16"	3/4"	1/4"	2"
AA46102	AA46202	1/4"	3/4"	1/4"	2-1/2"
BL85911M	BL85903M	1/4"	1"	1/4"	2-1/2"
AB75-102	-	1/4"	1"	1/4"	2-1/2"
AA46316	-	1/4"	1-1/8"	1/4"	3"
1/2" SHANK - 2 FLUTE					
-	AA46219	5/16"	1"	1/2"	3"
AA46318	-	5/16"	1-1/8"	1/2"	3"
AA46104	-	3/8"	1-1/4"	1/2"	3"
AA46106	AA46206	1/2"	1-1/4"	1/2"	3"
-	AB76-108	1/2"	1-1/4"	1/2"	3"
AA46107	AA46207	1/2"	1-5/8"	1/2"	3-1/2"
-	BL85918M	1/2"	1-5/8"	1/2"	3-1/2"
1/2" SHANK - 3 FLUTE					
AA46114	-	3/8"	1-1/4"	1/2"	3"
AA46116	AA46216	1/2"	1-1/2"	1/2"	3-1/2"
-	AA46218	1/2"	2"	1/2"	4"

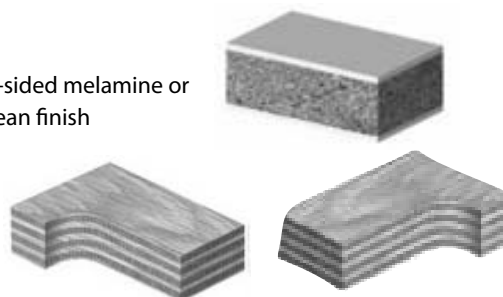


COMPRESSION SPIRAL SOLID CARBIDE BIT

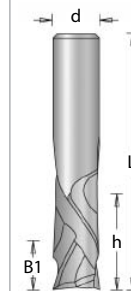
2 Flute, 1/4" & 1/2" Shank



- Application: Designed for CNC applications with double-sided melamine or laminated material that requires high feed rates and a clean finish
- Also works well on rigid, hard plastics
- Compression spiral bits push the material down the bit plunges, then pulls it up avoiding blow-outs in the bottom of your work
- Special unique carbide for longer lifetime in abrasive material



Amana (AA)

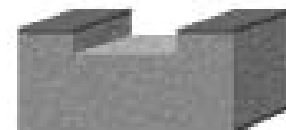


Packing & Sold In: Each

Item #	DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)				
	D Cutting Diameter	h Cutting Depth	B1 (mm) Upcut Length	d Shank Diameter	L Overall Length
AA46170	1/4"	7/8"	7	1/4"	2-1/2"
AA46174	3/8"	1"	9	1/2"	3"
AA46188	1/2"	1-1/4"	9	1/2"	3"
AA46190	1/2"	1-5/8"	11	1/2"	3-1/2"

MORTISE COMPRESSION SPIRAL SOLID CARBIDE BIT

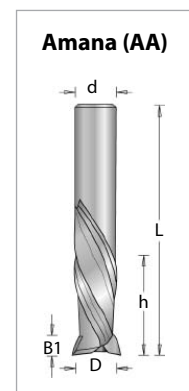
2 Flute, 1/2" Shank



- Application: Mortises or grooves with a perfect top surface, or through-cuts in thin double sided veneers and laminates
- Combination of up and down shear flutes eliminates chipping on both sides of double sided panels
- These bits have a much shorter up-cut section than standard compression bits
- Double flute spirals are for extra clean cuts at faster feed rates
- Use on CNC and other automatic routers as well as hand-held and table-mounted portable routers

Packing & Sold In: Each

Item#	DIMENSIONS (SORTED BY CUTTING DEPTH)				
	D Cutting Diameter	h Cutting Depth	B1 Upcut Length	d Shank Diameter	L Overall Length
AA46354	1/2"	1-1/4"	1/4	1/2"	3"
AA46352	3/8"	1-1/4"	3/16"	1/2"	3"



SECTION Y BITS & CUTTERS

SPIRAL ROUTER BITS

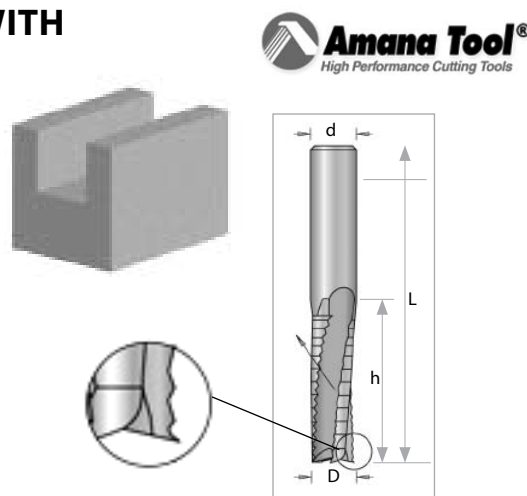
SPIRAL FLUTE SOLID CARBIDE ROUGHING BIT WITH CHIPBREAKER

3 Flute, 1/2" Shank

- Application: For use with high RPM, high feed rate CNC routers when high feed rates are called for on hardwoods, plywoods and other dense materials
- Unique chipbreaker design is available as an "Up-Cut" bit
- Will leave a wavy, striated finish

Packing & Sold In: Each

Item#	DIMENSIONS			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA46126	1/2"	2"	1/2"	4"



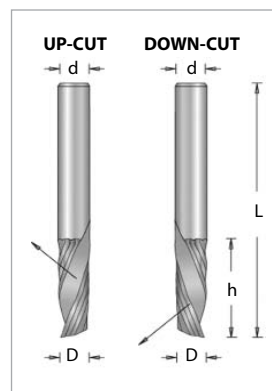
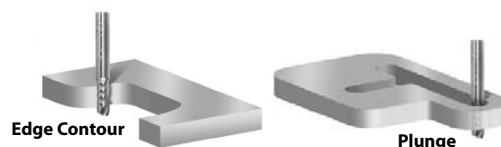
PLASTIC CUTTING SPIRAL SOLID CARBIDE BIT WITH "O" FLUTE

2 Flute, 1/8", 3/16" & 1/4" Shank

- Application: Designed to produce super clean, smooth cuts especially in acrylic materials, other plastics and wood
- Can be used for either edge contour or plunge routing
- Available in "Up-Cut" and Down-Cut"
- Unique "O" flute design ejects chips easily
- Fits most CNC machines

Packing & Sold In: Each

		DIMENSIONS (SORTED BY CUTTING DIAMETER)			
Item# Up Cut	Item# Down Cut	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA51410	AA51510	1/8"	1/2"	1/8"	2"
AA51412	AA51512	3/16"	5/8"	3/16"	2"
AA51404	-	1/4"	3/4"	1/4"	2"



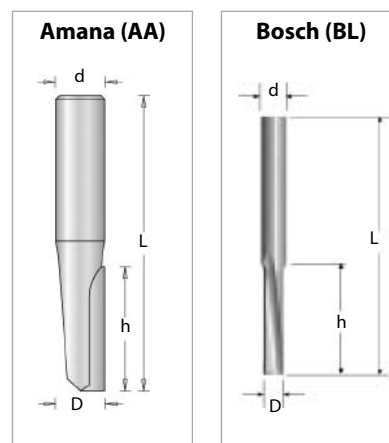
PLASTIC CUTTING SOLID CARBIDE BIT WITH "O" FLUTE

2 Flute, 1/4" Shank

- Applications: Double flute gives exceptionally clean cuts in soft plastics such as PVC, styrene, ABS, etc.
- Unique "O" flute design ejects chips more easily

Packing & Sold In: Each

DIMENSIONS (SORTED BY CUTTING DIAMETER)				
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA43600	1/8"	1/2"	1/4"	2"
BL85611M	1/4"	1"	1/4"	2-1/2"



CARBIDE TIP BIT WITH TOP MOUNT BALL BEARING GUIDE

2 Flute, 1/4", 3/8" & 1/2" Shank

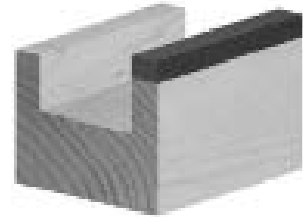
- Application: Versatile bit, useful for template/pattern routing of parts, joints, and internal cuts and can be used in handheld and table-mounted routers
- This bit is essentially a plunge-cutting straight with a shank-mounted ball-bearing pilot
- The template is attached to the workpiece, and the pilot bearing rides along its edge as the cutting edges rout the workpiece, forming an exact duplicate of the template
- With a handheld router, the pattern is on top of the work; with a table-mounted router, the pattern is underneath the work

Packing & Sold In: Each

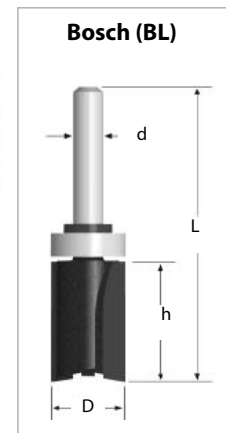
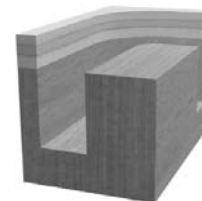
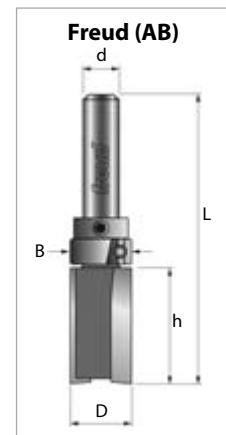
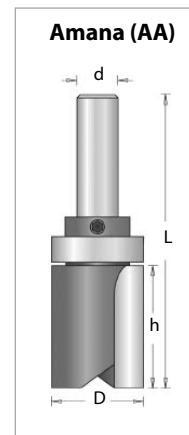


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Item#	DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)				
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	B Bearing Diameter
1/4" SHANK					
AA45460	1/2"	1"	1/4"	2-1/2"	-
BL85680M	1/2"	1"	1/4"	2-1/2"	-
AB50-102	1/2"	1"	1/4"	2-5/8"	1/2"
AA45461	1/2"	1-1/4"	1/4"	2-3/4"	-
AA45464	3/4"	1"	1/4"	2-1/2"	-
BL85682M	3/4"	1"	1/4"	2-1/2"	-
AA45462	5/8"	1"	1/4"	2-3/4"	-
3/8" SHANK					
AA45466	1"	1"	3/8"	2-7/8"	-
1/2" SHANK					
AA45463	3/4"	1"	1/2"	3"	-
AA45465	3/4"	1-3/4"	1/2"	3-3/4"	-
AA45467	1"	1-3/4"	1/2"	3-3/4"	-
AB50-122	1-1/8"	1-1/2"	1/2"	3-3/8"	1-1/8"
AA45468	1-1/8"	1-1/2"	1/2"	3-1/2"	-
BL85671M	1-1/8"	1-1/2"	1/2"	3-1/2"	-



SECTION Y BITS & CUTTERS

FLUSH TRIM ROUTER BITS

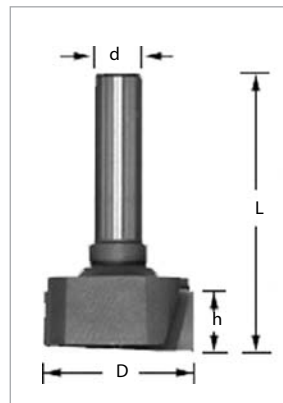
MORTISING BOTTOM CLEANING CARBIDE TIP BIT, WITH UPPER BALL BEARING

2 Flute, 1/2" Shank

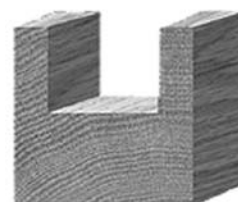
- Application: Shank-mounted ball bearing for pattern and template routing

Packing & Sold In: Each

Item#	DIMENSIONS (SORTED BY CUTTING DIAMETER)			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA45565	1"	7/16"	1/2"	2-1/2"
AA45567	1-1/2"	5/8"	1/2"	2-3/4"



**NEW
ITEM!**



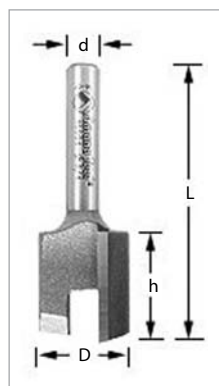
MORTISING DOWN-SHEAR CARBIDE TIP BIT, WITH UPPER

2 Flute, 1/4" Shank

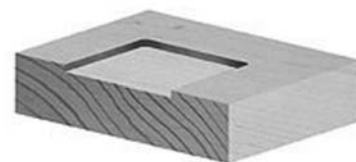
- Application: Shank-mounted ball-bearing for template and pattern work

Packing & Sold In: Each

Item#	DIMENSIONS			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA45582	1/2"	3/4"	1/4"	2-3/8"



**NEW
ITEM!**



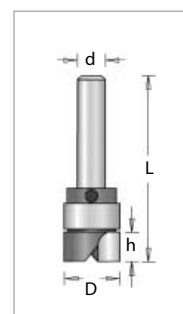
DADO CLEAN-OUT CARBIDE TIP BIT WITH TOP MOUNT BALL BEARING GUIDE

2 Flute, 1/4" Shank

- Application: Bit designed with a 1/4" cutting edge for dado clean-out
- Also used in hardwood and flooring medallions

Packing & Sold In: Each

Item#	DIMENSIONS			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA45460S	1/2"	1/4"	1/4"	1-5/8"



CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2, 3 & 4 Flute, 1/4" & 1/2" Shank

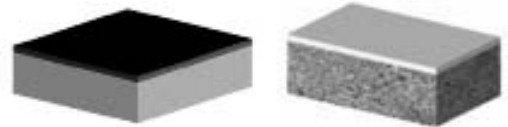
- Application: For laminate work or for template and pattern work
- Two flute design provides faster cutting, three flutes yield a superior finish at slower speeds, four flutes provide smoothest finish
- For template application, the bearing follows the template, while the cutting edges trim the workpiece
- With the router handheld, the template is on the bottom of the work
- With a table-mounted router, the template is on top
- A two-flute bit is a good general-purpose choice, providing fast cuts and good finishes

Packing & Sold In: Each

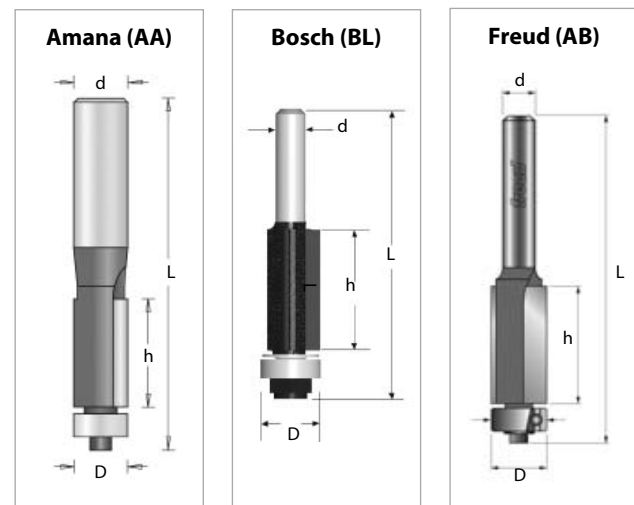


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DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)				
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
2 FLUTE - 1/4" SHANK				
AA47090	1/4"	1/2"	1/4"	2-1/4"
BL84501M	1/4"	3/4"	1/4"	2-15/32"
AA47092	1/4"	1"	1/4"	2-1/2"
AA47102	3/8"	1/2"	1/4"	2-1/8"
BL85269M	3/8"	1/2"	1/4"	2-1/8"
AB42-102	3/8"	1/2"	1/4"	2-5/16"
AA47100	3/8"	1"	1/4"	2-5/8"
BL85268M	3/8"	1"	1/4"	2-5/8"
AB42-100	3/8"	1"	1/4"	2-13/16"
AA47106	1/2"	1/2"	1/4"	2-1/4"
BL85267M	1/2"	1/2"	1/4"	2-1/4"
AA47104	1/2"	1"	1/4"	2-5/8"
BL85266M	1/2"	1"	1/4"	2-5/8"
AB42-104	1/2"	1"	1/4"	2-13/16"
AB42-108	1/2"	1"	1/4"	2-15/16"
BL85430M	5/8"	3/8"	1/4"	1-15/16"
2 FLUTE - 1/2" SHANK				
AA47110	1/2"	1/2"	1/2"	2-3/4"
AA47108	1/2"	1"	1/2"	3-1/4"
BL85441M	1/2"	1"	1/2"	3-1/4"
AB42-110	1/2"	1"	1/2"	3-1/4"
AB42-114	1/2"	1-1/2"	1/2"	3-5/8"
AA47124	1/2"	1-1/2"	1/2"	3-7/8"
AA47126	1/2"	2"	1/2"	4-1/4"
AB42-116	1/2"	2"	1/2"	4-3/8"
BL85442M	1/2"	2"	1/2"	4-27/64"



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)				
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
3 FLUTE - 1/4" SHANK				
BL85421M	5/8"	3/8"	1/4"	1-61/64"
AA47116	1/2"	1/2"	1/4"	2"
BL85216M	1/2"	1"	1/4"	2-9/16"
AA47114	1/2"	1"	1/4"	2-5/8"
3 FLUTE - 1/2" SHANK				
AA47118	1/2"	1"	1/2"	3-1/4"
AB44-104	1/2"	1"	1/2"	3-1/4"
AA47128	1/2"	1-1/2"	1/2"	3-7/8"
4 FLUTE - 1/4" SHANK				
BL85431M	5/8"	3/8"	1/4"	1-15/16"

CARBIDE TIP BIT WITH BOTTOM MOUNT DOUBLE BALL BEARING GUIDE

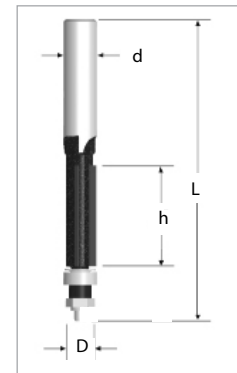
2 & 3 Flute, 1/2" Shank

- Application: Micro grain bit for laminate trimming and trim cuts on heavier work when cutting with a template.
- Can be used with 2 ball bearings to widen the bearing surface and reduce template wear

Packing & Sold In: Each



BOSCH



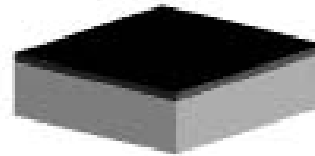
DIMENSIONS				
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
1/2" SHANK - 2 FLUTE				
BL85601M	1/2"	1-1/2"	1/2"	4-3/8"
1/2" SHANK - 3 FLUTE				
BL85602M	1/2"	1-1/2"	1/2"	4-1/2"

CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

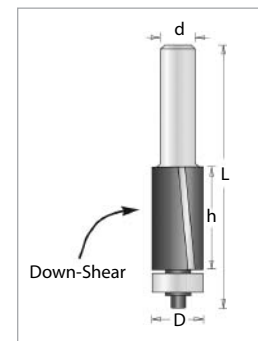
Laminate Dynabit™, 2 Flute, 1/4" & 1/2" Shank

- Application: Good on difficult materials such as melamine
- Features a modest down-shear for an excellent finish
- The helix bits have a spiral-like twist to the cutting edges

Packing & Sold In: Each



Amana Tool®
High Performance Cutting Tools



DIMENSIONS (SORTED BY CUTTING DIAMETER)					
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	Type
AA47105	1/2"	1"	1/4"	2-5/8"	Down Shear
AA47109	1/2"	1"	1/2"	3"	Down Shear
AA47180	5/8"	5/8"	1/4"	2"	Flush Helix
AA47182	3/4"	5/8"	1/4"	2-1/4"	Flush Helix

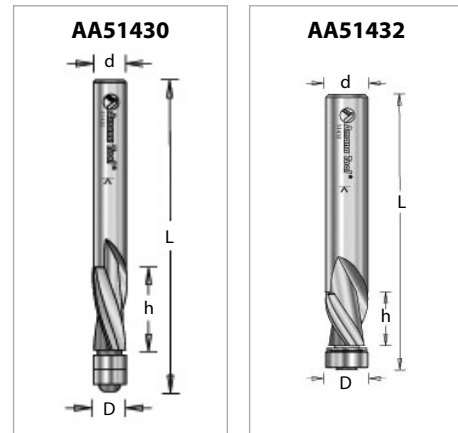
SPIRAL FLUTE FLUSH TRIM SOLID CARBIDE BIT W/BOTTOM MOUNT BALL BEARING GUIDE



Invectra™, Flute, 1/4" & 1/2" Shank

- Application: Specially designed for trimming all decorative metal laminates
- Recommended by Formica® for use in all DecoMetal® material (excluding #2178) & Advanced Technology Inc. (ATI®)
- Engineered from an Amana-exclusive carbide grade designed specifically for cutting both metal laminates and wood-based substrate
- Features a special combination of grinding angles that, when combined with the proper cutting speed, delivers a superior cut
- To ensure the best cutting results, each bit is fitted with a steel bearing guide that enables users to trim laminate materials flush to the substrate

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER)					
Item#	D Cutting Diameter	h Cutting Depth	d Shank	L Overall Diameter	Max RPM
AA51430	1/4"	5/8"	1/4"	2-3/8"	28,000
AA51432	1/2"	5/8"	1/2"	3-1/4"	14,000

SECTION Y BITS & CUTTERS

SOLID CARBIDE TRIM PILOT ROUTER BITS

SOLID CARBIDE HOLE & FLUSH CUT TRIMMER

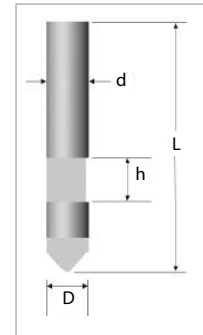
- Application: Bit drills through surface lamination into precut openings and trims edges flush in one operation

Packing & Sold In: Each

Item#	DIMENSIONS			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
BL85287	1/4"	1/4"	1/4"	1-1/2"



BOSCH



FLUSH TRIM PANEL PILOT SOLID CARBIDE BIT

Single Flute, 1/4" Shank

- Application: Laminate trimming router bit for high volume production
- Solid carbide and integral pilot (no bearing to maintain) extend life of router bit, slim configuration reduces vibration
- Suitable for routers and trimmers

Packing & Sold In: Each

Item#	DIMENSIONS (SORTED BY CUTTING DEPTH)					
	D Cutting Diameter	h Cutting Depth	d Shank Size	L Overall Length	Type of Cut	Box Qty
AA51200	1/4"	1/4"	1/4"	1-1/2"	Flush	1
BL85285	1/4"	1/4"	1/4"	1-1/2"	Flush	1
AB64-100	1/4"	3/8"	1/4"	1-1/2"	Flush	1

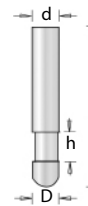


BOSCH

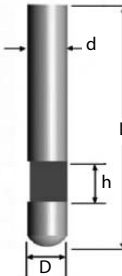
freud
Precisely the best.



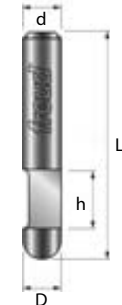
Amana (AA)



Bosch (BL)



Freud (AB)



BEVEL TRIM PANEL PILOT SOLID CARBIDE BIT

Single Flute, 1/4" Shank

- Application: Laminate trimming router bit for high volume production
- Solid carbide and integral pilot (no bearing to maintain) extend life of router bit, slim configuration reduces vibration
- Suitable for routers and trimmers

Packing & Sold In: Each

Item#	DIMENSIONS					
	D Cutting Diameter	h Cutting Depth	d Shank Size	L Overall Length	Type of Cut	Box Qty
AA51202	1/4"	1/4"	1/4"	1-1/2"	7° Bevel	1
AB66-100	1/4"	1/4"	1/4"	1-1/2"	7° Bevel	1
BL85286	1/4"	1/4"	1/4"	1-1/2"	7-1/2° Bevel	1

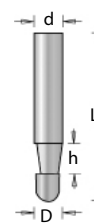


BOSCH

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Amana (AA)



Bosch (BL)



Freud (AB)



BEVEL TRIM CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2, 3 & 4 Flute, 1/4" Shank

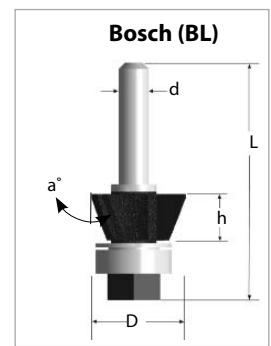
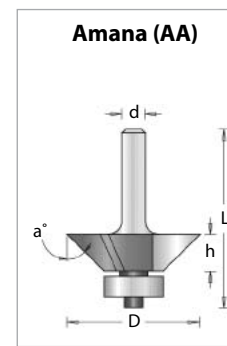
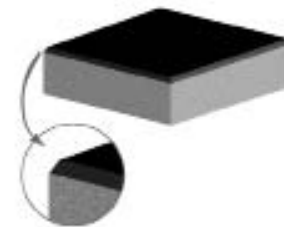


BOSCH

- Application: Steel-bodied, carbide tip bit for bevel trimming laminate with a standard hand held router
- The solid construction reduces vibration for the smoothest cut possible with a two-flute bit

Packing & Sold In: Each

DIMENSIONS (SORTED BY CUTTING DIAMETER)					
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	a° Angle
1/4" SHANK - 2 FLUTE					
AA47200	5/8"	9/32"	1/4"	1-7/8"	15°
AA47202	23/32"	9/32"	1/4"	1-7/8"	25°
AA47204	1-1/16"	9/32"	1/4"	2"	45°
1/4" SHANK - 3 FLUTE					
BL85422M	3/4"	3/8"	1/4"	1-15/16"	9°
AA47302	3/4"	7/16"	1/4"	2"	7°
BL85420M	7/8"	3/8"	1/4"	1-15/16"	22°
AA47300	15/16"	7/16"	1/4"	1-7/8"	23°
AA47304	1-3/32"	7/16"	1/4"	2"	30°
1/4" SHANK - 4 FLUTE					
BL85415M	7/8"	5/16"	1/4"	2-1/8"	15°



SPECIAL BEVEL TRIM BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

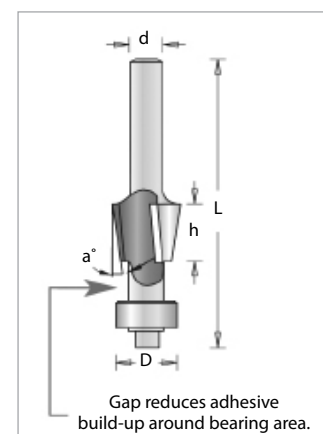
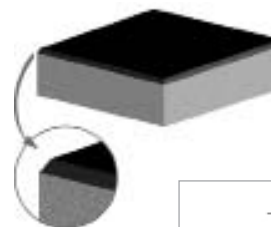
2 Flute, 1/4" Shank



- Application: Steel-bodied carbide bit tip for bevel trimming laminate with a standard hand held router
- Shallow bevel angle and the gap between the cutting edges and the ball-bearing pilot are the key features of this carbide-tip bit
- The gap collects adhesive residue that usually fouls the pilot and thus degrade the cut

Packing & Sold In: Each

DIMENSIONS					
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	a° Angle
AA47210	5/8"	15/32"	1/4"	2-1/4"	8°



SECTION Y BITS & CUTTERS

TRIMMING & BEVELING ROUTER BITS

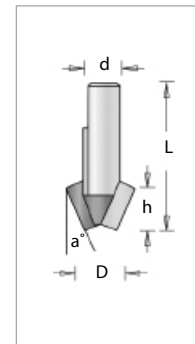
BEVEL TRIM CARBIDE TIP BIT 2 Flute, 1/4" Shank



- Application: Steel-bodied carbide tip bit for bevel trimming laminate with a standard router
- The solid construction reduces vibration for the smoothest cut possible with a two-flute bit

Packing & Sold In: Each

DIMENSIONS					
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	a° Angle
AA51600	13/32"	9/32"	1/4"	15/16"	22°



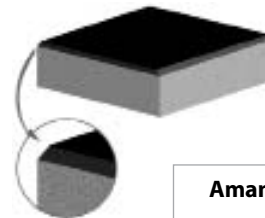
COMBINATION BEVEL & FLUSH TRIM CARBIDE TIP BIT 2 Flute, 1/4" Shank



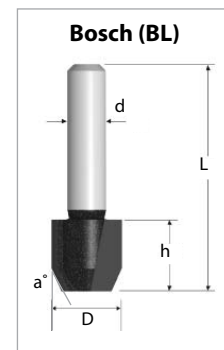
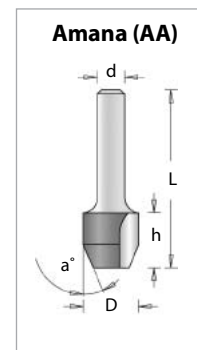
BOSCH

- Application: Cut, trim, and bevel laminates with one bit
- Change depth of cut setting to shift from flush to bevel trimming
- Must be used with an edge or bearing guide or fence
- Designed specifically for use in laminate trimmers

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)					
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	a° Angle
BL85288	1/4"	3/8"	1/4"	1-1/2"	Flush or 10° Bevel
AA51100	1/2"	1/2"	1/4"	1-3/4"	Flush or 23° Bevel
BL85261M	1/2"	1/2"	1/4"	1-3/4"	Flush or 22° Bevel
AA51400	11/32"	1/2"	1/4"	1-5/8"	Flush or 22.5° Bevel



COMBINATION FLUSH & BEVEL TRIMMER, SOLID CARBIDE Single Flute, 1/4" Shank



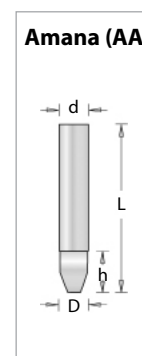
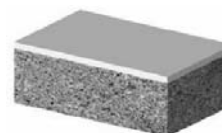
freud®

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- Application: Designed specifically for use in a laminate trimmer, that will both flush and bevel trim
- A change in cut depth is all it takes to switch from one to the other
- Must be used with a separate ball-bearing or edge guide

Packing & Sold In: Each

DIMENSIONS					
Item#	D Cutting Diameter	h Cutting Depth	a° Angle	d Shank Diameter	L Overall Length
AB68-100	1/4"	3/8"	7°	1/4"	1-1/2"
AA51706	1/4"	3/8"	-	1/4"	1-1/2"



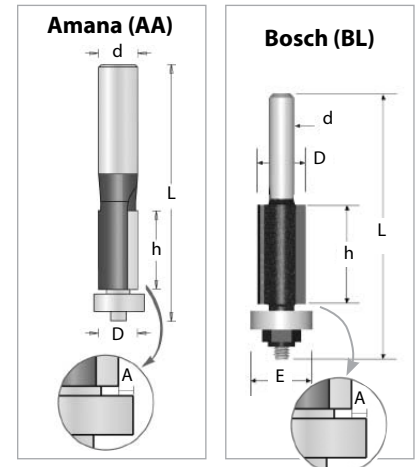
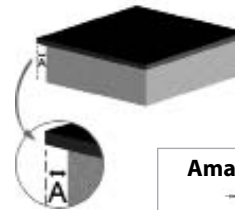
OVERHANG TRIM CARBIDE TIP BIT WITH BALL BEARING GUIDE 2 Flute, 1/4" & 1/2" Shank



BOSCH

- Application: Preliminary laminate trimming, leaving a small overhang
- Reduces chipping of material
- Final pass can be achieved using a standard trim bit, or 'No-File'™ bit
- Replacement bearing AA47718

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)						
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	E Bearing Diameter	A Overhang
1/4" SHANK - SINGLE FLUTE						
BL85217M	11/32"	1/2"	1/4"	2-19/64"	3/4"	3/16"
1/4" SHANK - 2 FLUTE						
AA47190	3/8"	1/2"	1/4"	2"	5/8"	1/8"
BL85210M	1/2"	1"	1/4"	2-11/16"	5/8"	1/16"
1/2" SHANK - 2 FLUTE						
AA47194	1/2"	1/2"	1/2"	2-5/8"	5/8"	1/16"

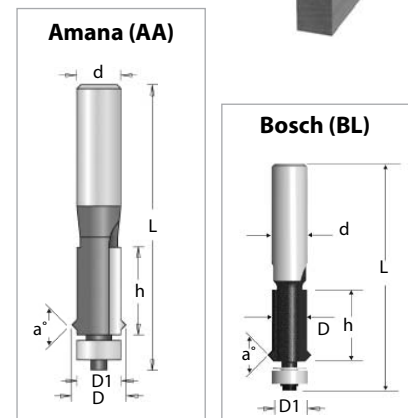
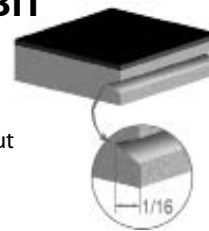
FLUSH TRIM "V" GROOVE CARBIDE TIP BIT WITH BALL BEARING GUIDE 2 Flute, 1/4" & 1/2" Shank



BOSCH

- Application: Trim the edges of face frames flush with decorative cut
- 'V' groove to conceal the seam between the frame and the case

Packing & Sold In: Each

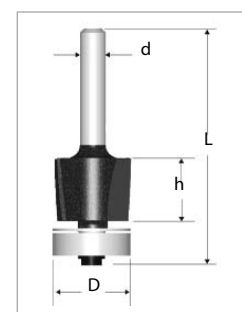
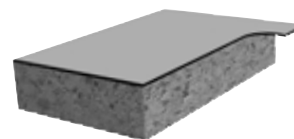


DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)						
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	D1 Bearing Diameter	a° Angle
1/4" SHANK						
AA47160	5/8"	1/2"	1/4"	2-1/2"	1/2"	90°
BL85646M	5/8"	1"	1/4"	2-1/2"	1/2"	90°
1/2" SHANK						
AA47162	5/8"	1/2"	1/2"	3"	1/2"	90°
BL85647M	5/8"	1"	1/2"	3"	1/2"	90°

CARBIDE TIP BIT HELICAL LAMINATE TRIMMING 2 Flute, 1/4" Shank

- Application: provides extra smooth production trimming

Packing & Sold In: Each



Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	Angle
BL85452M	3/4"	5/8"	1/4"	2-1/4"	Flush

BOSCH

SECTION Y BITS & CUTTERS

TRIMMING & BEVELING ROUTER BITS

RADIUS EDGE TRIM CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

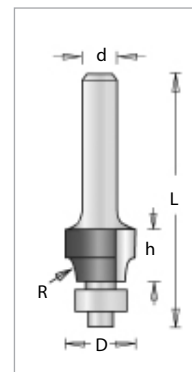
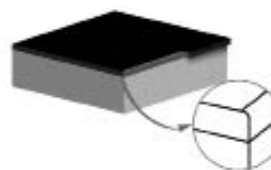
No File™, 2 Flute, 1/4" & 1/2" Shank

- Application: Our patented "No-File" bit breaks the sharp edge as it trims the laminate flush
- Eliminate the time consuming hand-filing that normally follows each trimming cut on a laminate job

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)					
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	R Radius
1/4" SHANK					
AA47150	1/2"	3/8"	1/4"	1-7/8"	.059
AA47154	1/2"	3/8"	1/4"	1-7/8"	.015
1/2" SHANK					
AA47152	1/2"	3/8"	1/2"	2-1/8"	.059

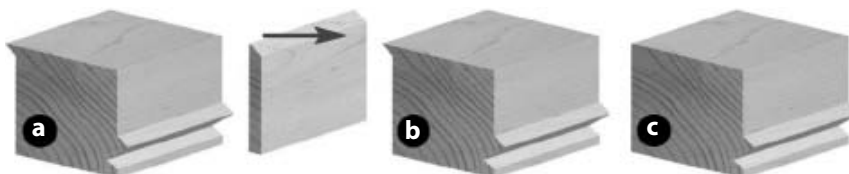


45° LAMINATE MITER JOINT UNDER CUT ASSEMBLY 4 WING W/ 'ULTRA GLIDE' BALL BEARING ASSEMBLY

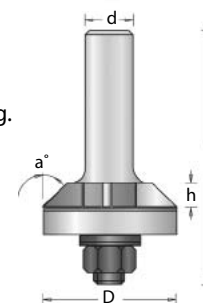
- Application: Eliminate the dark line at the edge of a counter or other laminate-covered surface
- With this bit assembly, the laminate cemented to the substrate can be trimmed and mitered in one pass; then a pre-mitered edging strip can be applied
- The resulting seam is clean and crisp
- Not intended for use in a laminate trimmer

Packing & Sold In: Each

- a** Laminate top is "under-cut", as shown.
- b** Apron laminate is pre-cut at 45°.
- c** Adhere pre-cut laminate for a perfect fit. A fine file may be used to remove the sharp edge after joining.



DIMENSIONS					
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	a° Angle
AA55312	1-3/8"	1/4"	1/4"	2-3/8"	45°



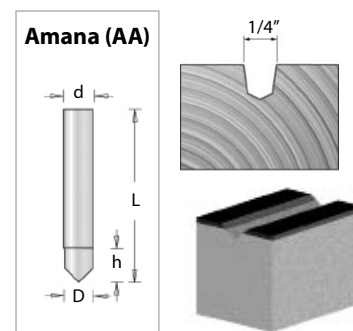
"V" GROOVING SOLID CARBIDE BIT Single Flute, 1/4" Shank

- Application: Router fine-line "V" grooves in laminate covered and wooden substrates
- Designed specifically for use in a laminate trimmer

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)						
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	n Small Diameter	m Minor Height
AA51710	1/4"	1/4"	1/4"	1-1/2"	-	-



FLUSH TRIM INSERT BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/4" & 1/2" Shank

- Application: In production environment, insert tooling reduces downtime to a minimum
- Each throw-away knife in this flush trimming bit has multiple edges
- Rotate the knife to expose a fresh cutting edge
- Tips can be replaced at any time, even mid job without changing the router setup

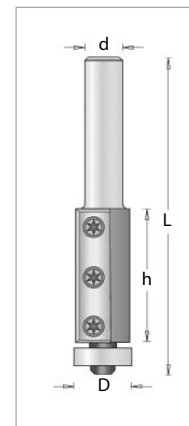
Packing & Sold In: Each

Item#	DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)				Replacement Knives
	D Overall Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	
AARC1000	3/4"	12mm	1/4"	2-1/8"	AAAMA12
AARC1004	3/4"	30mm	1/2"	3-1/4"	AAICK30



AAAMA12

AAICK30



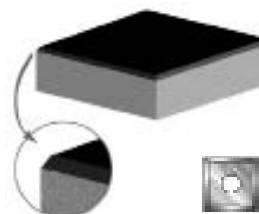
BEVEL TRIM INSERT BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/4" Shank

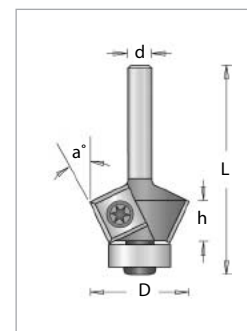
- Application: Canted for bevel-trimming

Packing & Sold In: Each

Item#	DIMENSIONS					Replacement Knives
	D Overall Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	a° Angle	
AARC1008	13/16"	7/16"	1/4"	2-1/4"	15°	AAAMA12



AAAMA12

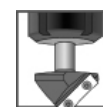
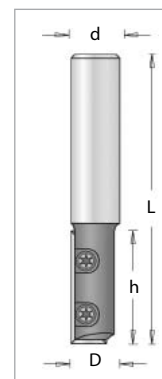


INSERT STRAIGHT SINGLE FLUTE & 2 FLUTE

- Application: In production environment, insert tooling reduces downtime to a minimum
- Each throw-away knife in this flush trimming bit has multiple edges
- Rotate the knife to expose a fresh cutting edge
- Tips can be replaced at any time, even mid job without changing the router setup

Packing & Sold In: Each

Item#	DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)				Replacement Knives
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	
AARC1154	1/2"	30mm	1/2"	3"	AAAMA30
AARC1084	3/4"	30mm	1/2"	3-3/8"	AARCK30
AARC1086	3/4"	50mm	1/2"	4-1/8"	AARCK30



ALSO OPTIMAL
FOR CNC USE



SECTION Y BITS & CUTTERS

GROOVING ROUTER BITS

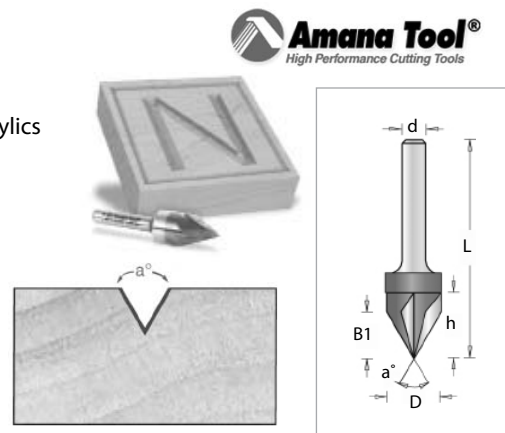
SIGNMAKING & LETTERING SOLID CARBIDE BIT

3 Flute, 1/2" Shank

- Application: For professional signmakers, makes crisp clean cuts in solid woods, MDF and acrylics
- Features an extra-fine 60° point that produces a precise, clean cut
- Superior to standard "v" groove bits for this application

Packing & Sold In: Each

Item#	DIMENSIONS					
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	B1 Bevel	a° Angle
AA45730	9/16"	7/16"	1/4"	2-1/4"	1/2"	60°



"V" GROOVE CARBIDE TIP BIT

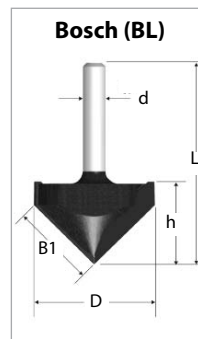
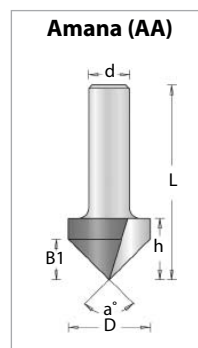
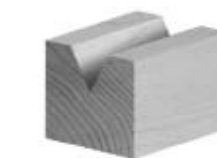
2 Flute, 1/4" & 1/2" Shank

- Application: Cut decorative 'V' grooves and lettering on signs with these 'V' groove bits
- Use with an edge guide to chamfer and bevel edges, can be used with handheld and CNC routers
- AA45728 maximum RPM is 18,000; AA45732 maximum RPM is 12,000 (both are only for use in table mounted routers)

Packing & Sold In: Each

Item#	DIMENSIONS (SORTED BY CUTTING DIAMETER)					
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	B1 Bevel	a° Angle
1/4" SHANK						
AA45700	3/8"	7/16"	1/4"	1-5/8"	3/16"	90°
AA45702	3/8"	7/16"	1/2"	2"	3/16"	90°
AA45704	1/2"	1/2"	1/4"	1-5/8"	1/4"	90°
AA45705	1/2"	5/8"	1/4"	1-3/4"	7/16"	60°
BL85219M	9/16"	3/4"	1/4"	1-3/4"	7/16"	45°
1/2" SHANK						
AA45708	1/2"	1/2"	1/2"	2-1/8"	1/4"	90°
AA45720	7/8"	5/8"	1/2"	2-1/4"	7/16"	90°
AA45724	1"	5/8"	1/2"	2-1/4"	1/2"	90°
AA45728	1-1/2"	1"	1/2"	2-3/4"	3/4"	90°
AA45732	2"	1-3/4"	1/2"	3-1/4"	1"	90°

BOSCH



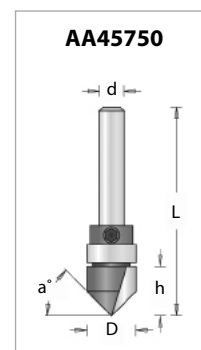
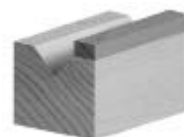
"V" GROOVE CARBIDE TIP BIT WITH TOP MOUNT BALL BEARING GUIDE

3 Flute, 1/4" Shank

- Application: Designed for "V" groove cuts guided by a template or pattern
- The shank-mounted ball bearing pilot rides along the template edge, and the cutter duplicates the template contour in the workpiece
- NOTE: With a handheld router, the template must be on top of the workpiece; with a table-mounted router, the template must be on the bottom of the workpiece

Packing & Sold In: Each

Item#	DIMENSIONS					
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	Type	a° Angle
AA45750	1/2"	1/2"	1/4"	2"	V Groove	90°



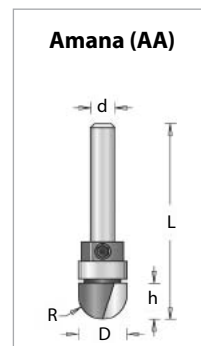
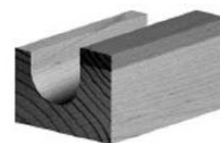
CORE BOX (ROUND NOSE) CARBIDE TIP BIT WITH TOP MOUNT BALL BEARING GUIDE

3 Flute, 1/4" Shank

- Application: Designed for fluting cuts guided by a template or pattern; ideal for template cutting, grooving, lettering, and plunge cutting
- The shank-mounted ball bearing pilot rides along the template edge, and the cutter duplicates the template contour in the workpiece
- NOTE: With a handheld router, the template must be on top of the workpiece; with a table-mounted router, the template must be on the bottom of the workpiece

Packing & Sold In: Each

Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
AA45950	1/2"	3/8"	1/4"	1/4"	2"



CORE BOX (ROUND NOSE) CARBIDE TIP BIT 2 Flute, 1/4" & 1/2" Shank

- Application: Cut half-round grooves for fluted moldings, columns, millwork and signs
- Cuts all composite materials, plywoods, hardwoods, and softwoods
- Used with an edge guide, it can cut coves
- AA45928 maximum RPM is 20,000

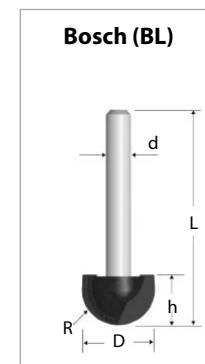
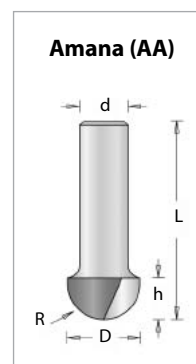
Packing & Sold In: Each



BOSCH



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)					
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
1/4" SHANK					
AA45900	1/8"	3/8"	1/16"	1/4"	1-3/4"
AA45904	1/4"	1/4"	1/8"	1/4"	1-5/8"
BL85444M	1/4"	1/4"	1/8"	1/4"	1-5/8"
AA45906	3/8"	1/4"	3/16"	1/4"	1-1/2"
BL85445M	3/8"	1/4"	3/16"	1/4"	1-1/2"
AA45910	1/2"	3/8"	1/4"	1/4"	1-1/2"
BL85446M	1/2"	3/8"	1/4"	1/4"	1-1/2"
AA45914	5/8"	7/16"	5/16"	1/4"	1-5/8"
AA45918	3/4"	7/16"	3/8"	1/4"	1-3/4"
BL85448M	3/4"	7/16"	3/8"	1/4"	1-3/4"
AA45924	1"	5/8"	1/2"	1/4"	1-3/4"
1/2" SHANK					
AA45908	3/8"	1/4"	3/16"	1/2"	2"
AA45912	1/2"	3/8"	1/4"	1/2"	2-1/8"
AA45920	3/4"	7/16"	3/8"	1/2"	2"
AA45926	1"	11/16"	1/2"	1/2"	2-1/8"
AA45928	1-1/4"	3/4"	5/8"	1/2"	2-5/16"



SECTION Y BITS & CUTTERS

GROOVING ROUTER BITS

ELONGATED CORE BOX (ROUND NOSE) CARBIDE TIP BIT 2 Flute, 1/2" Shank

- Application: For use when cutting a much deeper half-round groove than possible with a regular core box bit
- Typically used in doors and columns
- AA45944 and AA45946 are designed for CNC machines. Do not use in Portable routers

Packing & Sold In: Each

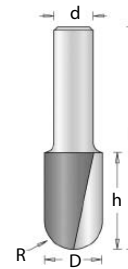


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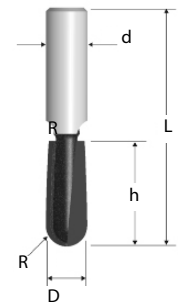


DIMENSIONS (SORTED BY CUTTING DIAMETER)					
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
AA45930	3/8"	1"	3/16"	1/2"	2-3/4"
AA45932	1/2"	1-1/4"	1/4"	1/2"	2-3/4"
BL85449M	1/2"	1-1/4"	1/4"	1/2"	2-3/4"
BL85450M	3/4"	1-1/4"	3/8"	1/2"	2-3/4"
BL85451M	1"	1-1/4"	1/2"	1/2"	2-3/4"
AA45944	1-1/4"	1-1/4"	5/8"	1/2"	2-3/4"
AA45946	1-1/2"	1-1/4"	3/4"	1/2"	2-3/4"

Amana (AA)



Bosch (BL)



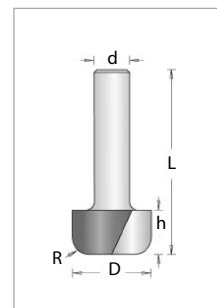
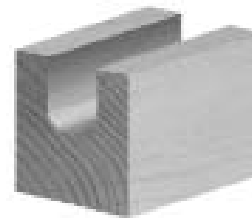
BOWL & TRAY CARBIDE TIP BIT 2 Flute, 1/4" & 1/2" Shank

- Application: For routing solid wood serving trays, flat dishes, shallow bowls, and similar objects
- This 3 in 1 specialty plunging bit cuts flat, smooths bottom surfaces, vertical walls, and a transition radius between them in 1 pass
- Can be used in handheld, table-mounted, and CNC routers

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER)					
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
1/4" SHANK					
AA45982	3/4"	5/8"	1/4"	1/4"	2-5/8"
1/2" SHANK					
AA45984	3/4"	5/8"	1/4"	1/2"	2-5/8"
AA45986	1-1/8"	5/8"	1/4"	1/2"	2-5/8"



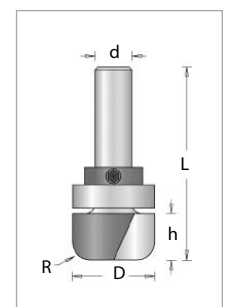
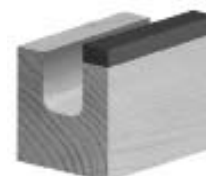
BOWL & TRAY CARBIDE TIP BIT WITH TOP MOUNT BALL BEARING GUIDE 2 Flute, 1/2" Shank

- Application: For routing solid wood serving trays, flat or shallow dishes, or similar objects when a template or pattern is being utilized
- This 3 in 1 specialty plunging bit cuts flat, smooth bottom surfaces, vertical walls, and a transition radius between them in one pass
- Can be used in handheld, table-mounted, and CNC routers

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER)					
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
AA45990	3/4"	5/8"	1/4"	1/2"	2-5/8"
AA45992	1-1/8"	5/8"	1/4"	1/2"	2-5/8"

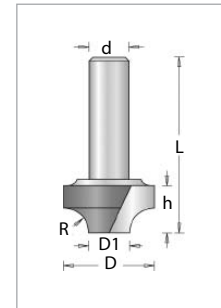
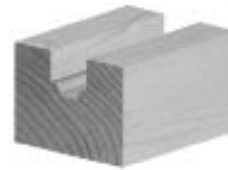


BEADING GROOVE CARBIDE TIP BIT

2 Flute, 1/4" Shank

- Application: Rout decorative grooves
- Quarter-round profiles are formed by this bit as it grooves, one on each side of a flat
- Used with a fence or edge guide, this beading bit can be used as an edge former

Packing & Sold In: Each



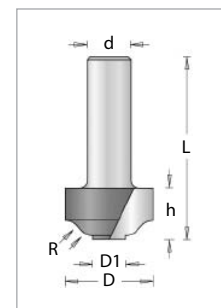
DIMENSIONS (SORTED BY CUTTING DIAMETER)						
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length	D1 Small Diameter
AA56170	1/2"	3/8"	1/8"	1/4"	1-7/8"	1/4"
AA56174	7/8"	15/32"	13/64"	1/4"	2-3/16"	1/2"

OGEE GROOVE CARBIDE TIP BIT

2 Flute, 1/4" & 1/2" Shank

- Application: Rout a flat-bottom groove with ogee shoulders
- Decorate any solid wood surface using a handheld or CNC router
- Forms a flat-bottom groove with a reverse ogee and step profile for the shoulders

Packing & Sold In: Each



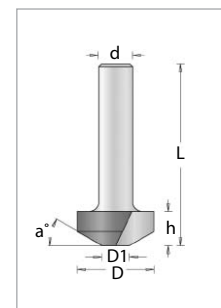
DIMENSIONS						
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length	D1 Small Diameter
1/4" SHANK						
AA56200	13/16"	17/32"	1/8"	1/4"	1-3/4"	5/16"
1/2" SHANK						
AA56210	1-3/16"	19/32"	15/64"	1/2"	1-7/8"	15/32"

RAISED PANEL GROOVE CARBIDE TIP BIT

2 Flute, 1/2" Shank

- Application: Rout decorative grooves on solid wood or MDF panels and surfaces with a handheld or CNC router
- Form edges using an edge guide
- Maximum RPM 18,000

Packing & Sold In: Each



DIMENSIONS						
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	D1 Small Diameter	a° Angle
AA56116	1-1/8"	1/2"	1/2"	2-3/4"	.454	30°

SECTION Y BITS & CUTTERS

GROOVING ROUTER BITS

CLASSICAL GROOVE CARBIDE TIP BIT

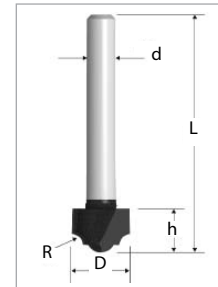
2 Flute, 1/4" Shank

- Application: Micro grain bit used for decorative grooving
- Can also be used for edge forming with a router guide

Packing & Sold In: Each



BOSCH



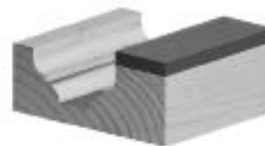
Item#	DIMENSIONS				
	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
BL85467M	1/2"	7/16"	3/32"	1/4"	2"

CLASSICAL GROOVE CARBIDE TIP BIT WITH TOP MOUNT BALL BEARING GUIDE

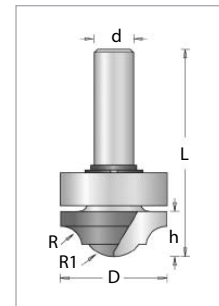
2 Flute, 1/2" Shank

- Application: Rout decorative grooves on solid wood or MDF panels and surfaces with a handheld or CNC router
- Form edges with a hand router equipped with an edge guide, or on a router table
- Shank-mounted bearing allows cuts to be guided by a template mounted atop the work piece

Packing & Sold In: Each



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High Performance Cutting Tools



Item#	DIMENSIONS					
	D Cutting Diameter	h Cutting Depth	R Radius	R1 Radius	d Shank Diameter	L Overall Length
AA56140	1-3/8"	9/16"	1/4"	13/32"	1/2"	2-5/8"

ROUND OVER GROOVE CARBIDE TIP BIT

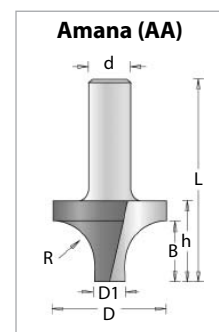
2 Flute, 1/2" Shank

- Application: Rout decorative grooves on solid wood or MDF panels and surfaces
- This bit creates a flat-bottom groove between two quarter-round shapes
- Short vertical walls extending below the radius lend extra depth to the appearance
- Depending upon the cut depth adjustment, the radii can be flush with the work surface or recessed
- The profile can be formed on an edge using an edge guide, or on the router table using a fence

Packing & Sold In: Each



Amana Tool®
High Performance Cutting Tools



Item#	DIMENSIONS						
	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length	D1 Small Diameter	B
AA49700	3/4"	1/2"	1/4"	1/2"	2"	.240"	1/2"

BALL END CARBIDE TIP BIT

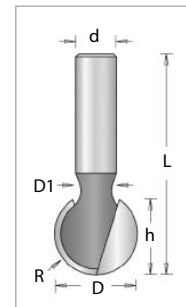
2 Flute, 1/2" Shank

- Application: Cut channels for pipes or cables using the ball end bit
- The profile requires the cut to be made in a single pass
- To reduce stress on the bit, cut an initial groove with a straight bit using the "D1" dimensions shown for the bit

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER)						
Item#	D Cutting Diameter	h Cutting Depth	D1	R Radius	d Shank Diameter	L Overall Length
AA45960	1/2"	7/16"	1/4"	1/4"	1/2"	2-1/4"
AA45964	3/4"	11/16"	5/16"	3/8"	1/2"	2-1/2"



EDGE FLUTING CARBIDE TIP BIT W/ BOTTOM MOUNT BALL BEARING GUIDE

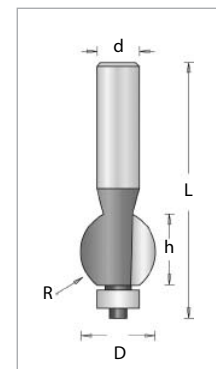
2 Flute, 1/2" Shank

- Application: Used to make small-scale cornice-type moldings
- Produces a "fingernail" flute – rather than a full 180° radius flute
- Used in a handheld or a table-mounted router

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)					
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
AA54302	3/4"	1/2"	5/16"	1/2"	2-3/4"
AA54306	7/8"	1"	3/4"	1/2"	3-1/4"



CHAMFER CARBIDE TIP BIT W/BOTTOM MOUNT BALL BEARING GUIDE

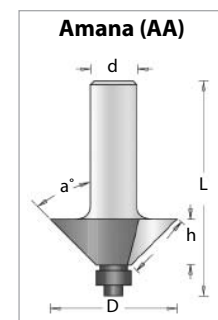
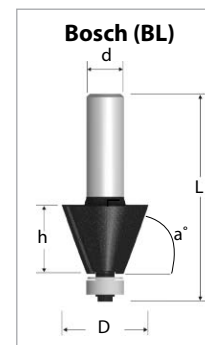
2 Flute, 1/4" & 1/2" Shank

- Application: Chamfer or bevel edges for decorative effect or to form edge miter joints
- Produces crisp, uniform edges at accurate angles to make 4-, 6-, 8-, 12- or 16- sided boxes
- AA49404 and AA49406 should not be used in hand held routers

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)					
Item#	D Cutting Diameter	h Cutting Dimensions	d Shank Diameter	L Overall Length	a° Angle Degree
1/4" SHANK					
AA49408	7/8"	3/4"	1/4"	2-1/4"	15°
AA49400	1-1/4"	1/2"	1/4"	2"	45°
BL85298M	1-1/4"	1/2"	1/4"	2"	45°
1/2" SHANK					
AA49402	1-1/4"	1/2"	1/2"	2-3/8"	45°
BL85597M	1-1/4"	1/2"	1/2"	2-3/8"	45°
AA49410	1-1/4"	15/16"	1/2"	2-7/8"	22.5°
BL85299M	1-1/4"	15/16"	1/2"	2-7/8"	22.5°
AA49414	1-3/8"	13/16"	1/2"	2-3/4"	30°
AA49404	2"	3/4"	1/2"	2-1/2"	45°
AA49406	2-3/8"	1"	1/2"	2-7/8"	45°



SECTION Y BITS & CUTTERS

PROFILING ROUTER BITS

ROUNDOVER (CORNER ROUNDING) CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/4" & 1/2" Shank

- Application: Soften furniture edges
- The basic edge-forming bit rounds an edge to a given radius

Packing & Sold In: Each



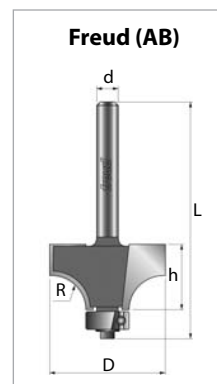
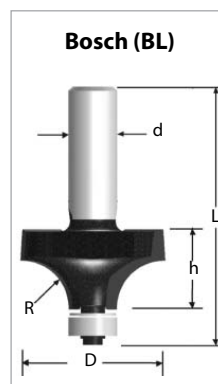
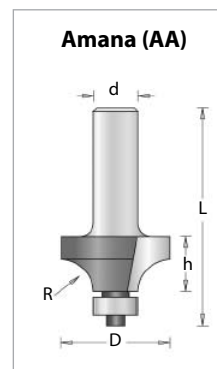
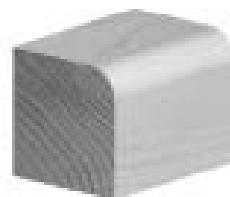
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BOSCH

freud®
Precisely the best.

Item#	DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)				
	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
1/4" SHANK					
AA49492	5/8"	5/16"	1/16"	1/4"	1-3/4"
BL85289M	5/8"	5/16"	1/16"	1/4"	1-3/4"
BL85290M	3/4"	5/16"	1/8"	1/4"	2"
AA49496	3/4"	3/8"	1/8"	1/4"	2"
BL85616M	3/4"	3/8"	5/32"	1/4"	2-1/4"
AB34-104	3/4"	1/2"	1/8"	1/4"	2-3/16"
BL85293M	7/8"	3/8"	3/16"	1/4"	2"
AA49500	7/8"	1/2"	3/16"	1/4"	2"
AA49504	1"	1/2"	1/4"	1/4"	2"
BL85294M	1"	1/2"	1/4"	1/4"	2"
AA49508	1-1/8"	1/2"	5/16"	1/4"	2-1/16"
BL85295M	1-1/8"	1/2"	5/16"	1/4"	2-1/16"
AA49512	1-1/4"	5/8"	3/8"	1/4"	2-3/16"
BL85296M	1-1/4"	5/8"	3/8"	1/4"	2-3/16"
AA49516	1-1/2"	3/4"	1/2"	1/4"	2-1/4"
BL85297M	1-1/2"	3/4"	1/2"	1/4"	2-1/4"
BL85596M	1-1/2"	3/4"	5/8"	1/4"	2-1/4"
1/2" SHANK					
AA49494	5/8"	5/16"	1/16"	1/2"	2-1/4"
AA49498	3/4"	3/8"	1/8"	1/2"	2-5/16"
BL85588M	3/4"	3/8"	1/8"	1/2"	2-5/16"
AA49506	1"	1/2"	1/4"	1/2"	2-7/16"
AA49514	1-1/4"	5/8"	3/8"	1/2"	2-9/16"
BL85594M	1-1/4"	5/8"	3/8"	1/2"	2-9/16"
AA49518	1-1/2"	3/4"	1/2"	1/2"	2-5/8"
BL85595M	1-1/2"	3/4"	1/2"	1/2"	2-5/8"
AB34-126	1-1/2"	3/4"	1/2"	1/2"	2-3/4"
AA49519	1-3/4"	7/8"	5/8"	1/2"	2-3/4"

Item#	DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)				
	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
1/2" SHANK					
AA49520	2"	1"	3/4"	1/2"	2-7/8"
BL85434M	2"	1"	3/4"	1/2"	3-3/16"
AA49522	2-1/2"	1-1/4"	1"	1/2"	3-3/16"
BL85433M	2-1/2"	1-1/4"	1"	1/2"	3-3/16"
AA49523	2-3/4"	1-3/8"	1-1/8"	1/2"	3-1/4"
AA49524	3"	1-1/2"	1-1/4"	1/2"	3-1/4"
AA49526	3-1/2"	1-3/4"	1-1/2"	1/2"	3-5/8"



COVE CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/4" & 1/2" Shank

- Application: Classic building block for many molding profiles; can also be used to detail the edges of casework, doors and drawers, posts and columns
- Can be used alone or in conjunction with beads and fillets
- The cove also makes up one-half of the rule joint used on drop leaf tables; the other half is the corner-round
- Large-diameter tools must be run at reduced speed; with a large radius cutter use a smaller radius bit or chamfer the workpiece to reduce the amount of stock to be removed in the finish pass

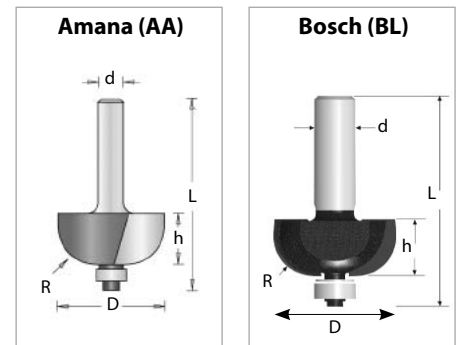
Packing & Sold In: Each



BOSCH



DIMENSIONS (SORTED BY CUTTING DIAMETER)					
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
1/4" SHANK					
AA49104	7/8"	9/16"	1/4"	1/4"	2"
BL85205M	7/8"	9/16"	1/4"	1/4"	2"
AA49112	1-1/8"	9/16"	3/8"	1/4"	2"
BL85206M	1-1/8"	9/16"	3/8"	1/4"	2"
AA49116	1-3/8"	3/4"	1/2"	1/4"	2-1/4"
BL85207M	1-3/8"	3/4"	1/2"	1/4"	2-1/4"
1/2" SHANK					
AA49110	1"	9/16"	5/16"	1/2"	2-3/8"
AA49118	1-3/8"	3/4"	1/2"	1/2"	2-1/2"
AA49120	2"	1"	3/4"	1/2"	2-7/8"

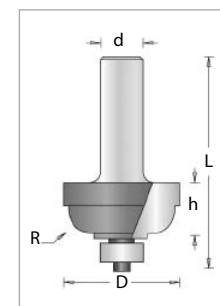
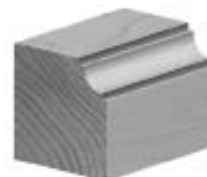


CLASSICAL COVE CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/4" & 1/2" Shank

- Application: Period moldings
- A cove flanked by step fillet is produced by this tool
- Use in either handheld or table-mounted routers

Packing & Sold In: Each



DIMENSIONS					
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
AA54146	1-3/8"	5/8"	5/16"	1/4"	2-1/8"
AA54150	1-3/8"	5/8"	5/16"	1/2"	2-1/2"

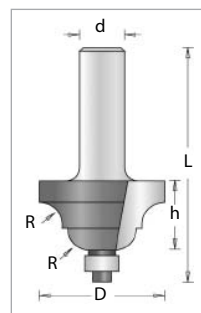
BEAD & COVE CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/4" & 1/2" Shank

- Application: Produces a complex bead and cove profile in one pass
- Reverse cove-and-bead bit, which has the cove coming off of the bearing
- Steeper profile than a classical bead & cove
- Radii of both cove and bead are identical
- Use in either handheld or table-mounted routers

Packing & Sold In: Each

DIMENSIONS (SORTED BY CUTTING DIAMETER)					
Item#	D Cutting Diameter	h Cutting Dimensions	R Radius	d Shank Size	L Length
AA49210	1"	5/8"	5/32"	1/2"	2-1/2"
AA49212	1-3/8"	7/8"	1/4"	1/4"	2-1/4"
AA49214	1-3/8"	7/8"	1/4"	1/2"	2-5/8"



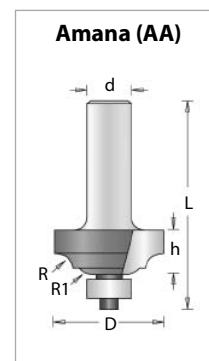
CLASSICAL BEAD & COVE CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/4" & 1/2" Shank

- Application: Produces a complex bead and cove profile in one pass
- Combines the two basic forms of profiling, separating them with a fillet
- Profile is not as steep as a standard bead and cove
- The coves comes off the pilot bearing
- Cove and bead both have different radii
- Use in either handheld or table-mounted routers

Packing & Sold In: Each

DIMENSIONS (SORTED BY CUTTING DIAMETER)						
Item#	D Cutting Diameter	h Cutting Depth	R Large Radius	R1 Small Radius	d Shank Diameter	L Overall Length
1/4" SHANK						
AA54102	1-1/4"	1/2"	13/64"	5/16"	1/4"	2"
AA54106	1-1/2"	5/8"	7/32"	15/64"	1/4"	2-1/8"
1/2" SHANK						
AA54104	1-1/4"	1/2"	13/64"	5/16"	1/2"	2-3/8"
AA54108	1-1/2"	5/8"	7/32"	15/64"	1/2"	2-1/2"

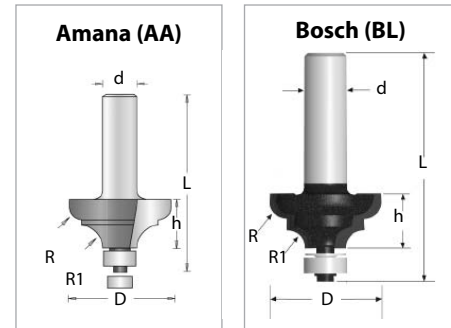


CLASSICAL COVE & BEAD CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/4" & 1/2" Shank

- Application: Produces a complex bead and cove profile in one pass
- Combines the two basic forms of profiling
- The positions of the bead and the cove are reversed on this series of bits, with the bead coming off of the bearing
- Use in either handheld or table-mounted routers
- AA54100 and AA54135 maximum RPM 18,000

Packing & Sold In: Each



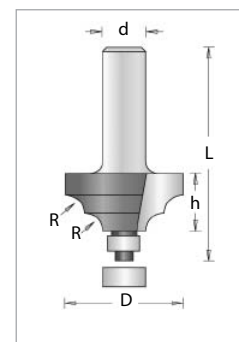
DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)						
Item#	D Cutting Diameter	h Cutting Depth	R Radius	R1 Radius	d Shank Diameter	L Overall Length
1/4" SHANK						
AA54130	1-3/8"	11/16"	1/4"	3/16"	1/4"	2-3/16"
BL85604M	1-3/8"	11/16"	1/4"	3/16"	1/4"	2-3/16"
1/2" SHANK						
AA54132	1-1/8"	1/2"	5/32"	5/32"	1/2"	2-3/8"
BL85605M	1-3/8"	11/16"	1/4"	3/16"	1/2"	2-9/16"
AA54134	1-3/8"	11/16"	1/4"	3/16"	1/2"	2-9/16"
AA54292	1-1/2"	5/8"	3/16"	5/16"	1/2"	2-1/2"
AA54135	2"	1"	3/8"	3/8"	1/2"	2-3/4"
AA54100	2"	1-1/4"	11/32"	11/32"	1/2"	3-1/8"

CLASSICAL MOLDING CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/4" Shank

- Application: A double quarter round profile is produced by this tool
- The depth of cut setting determines whether or not a fillet is formed at the top
- Switching from the standard pilot bearing to the optional 3/8" bearing (#AA47702) introduces a fillet at the bottom of the profile
- Use in either handheld or table-mounted routers

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER)					
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
AA54136	1-1/8"	1/2"	5/32"	1/4"	2"
AA54138	1-3/8"	11/16"	7/32"	1/4"	2-3/16"

SECTION Y BITS & CUTTERS

PROFILING ROUTER BITS

OGEE CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/4" & 1/2" Shank

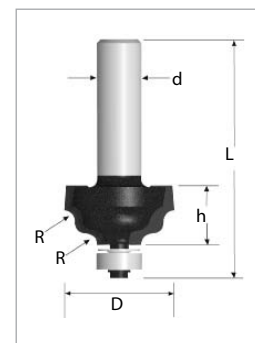
- Application: Produces an undulating curve with two convex forms flanking a concave form
- A shoulder on the cutter can form a fillet, depending on the depth of cut setting

Packing & Sold In: Each



BOSCH

DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)					
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
1/4" SHANK					
BL85606M	1-1/4"	11/16"	5/32"	1/4"	2-1/4"
1/2" SHANK					
BL85607M	1-1/4"	11/16"	5/32"	1/2"	2-5/8"



OGEE CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

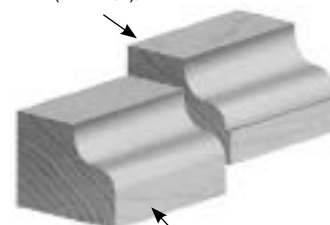
2 Flute, 1/4" & 1/2" Shank

- Application: One of the basic shapes used in moldings and decorative profiles
- An S-shape curve, it is convex at the top fairing down into a concave
- The ogee bit is characterized by the concave shape coming off the pilot bearing
- Using the optional 3/8" bearing (AA47702) produces a profile with a fillet at the convex end of the curve
- Use in either handheld or table-mounted routers

Packing & Sold In: Each

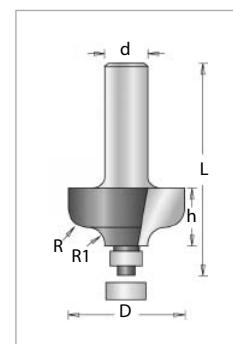


Profile when cut with optional 3/8" bearing (AA47702).



Profile when cut with 1/2" bearing (included).

DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)						
Item#	D Cutting Diameter	h Cutting Depth	R Radius	R1 Radius	d Shank Diameter	L Overall Length
1/4" SHANK						
AA54122	1-3/8"	11/16"	1/4"	3/16"	1/4"	2-3/16"
1/2" SHANK						
AA54124	1-3/8"	1/2"	5/32"	5/32"	1/2"	2-3/8"
AA54126	1-3/8"	11/16"	1/4"	3/16"	1/2"	2-9/16"



PROFILING ROUTER BITS

SECTION Y BITS & CUTTERS

OGEE FILLET CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

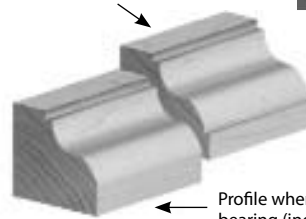
2 Flute, 1/4" & 1/2" Shank

- Application: Moldings and decorative profiles
- This open pattern has a step at the end of the concave portion of the curve
- Using the optional 3/8" bearing (AA47702) produces a profile with a fillet at the convex end of the curve
- Use in either handheld or table-mounted routers

Packing & Sold In: Each

DIMENSIONS (SORTED BY CUTTING DIAMETER)					
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
1/4" SHANK					
AA54110	1-3/8"	1/2"	5/32"	1/4"	2-1/16"
BL85584M	1-3/8"	1/2"	5/32"	1/4"	2-1/16"
1/2" SHANK					
AA54112	1-3/8"	1/2"	5/32"	1/2"	2-1/2"
AA54114	1-5/8"	3/4"	1/4"	1/2"	2-5/8"
BL85586M	1-5/8"	3/4"	1/4"	1/2"	2-5/8"
AA54127	2-1/4"	15/16"	3/8"	1/2"	2-7/8"

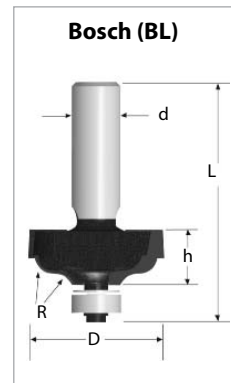
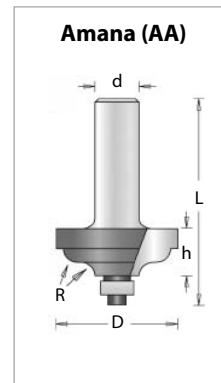
Profile when cut with
optional 3/8" bearing
(AA47702).



Profile when cut with 1/2"
bearing (included).



BOSCH



ROMAN OGEE CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE,

2 Flute, 1/4" & 1/2" Shank

- Application: Used for decorative edging and period furniture
- The Roman ogee bit, which has a convex curve coming off the bearing, produces the reverse of the ogee
- The curve starts at the top as a concave, and flares down into a convex curve
- Use in either handheld or table-mounted routers

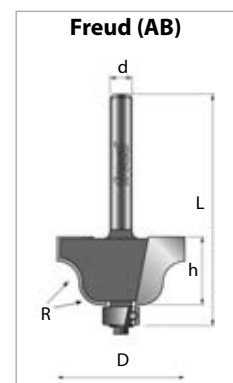
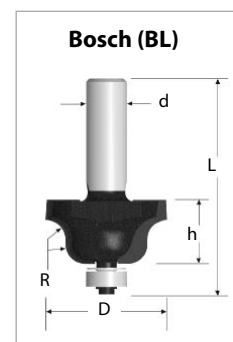
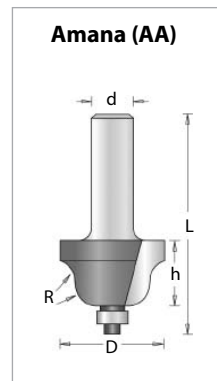
Packing & Sold In: Each

DIMENSIONS (SORTED BY CUTTING DIAMETER)					
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
1/4" SHANK					
BL85271M	3/8"	7/8"	1/4"	1/4"	2-1/4"
AA49200	1"	5/8"	5/32"	1/4"	2-1/8"
BL85270M	1"	5/8"	5/32"	1/4"	2-1/8"
AA49204	1-3/8"	7/8"	1/4"	1/4"	2-1/4"
1/2" SHANK					
BL85592M	3/8"	7/8"	1/4"	1/2"	2-5/8"
AA49202	1"	5/8"	5/32"	1/2"	2-1/2"
BL85591M	1"	5/8"	5/32"	1/2"	2-1/2"
AA49206	1-3/8"	7/8"	1/4"	1/2"	2-5/8"
AB38-106	1-3/8"	23/32"	1/4"	1/2"	2-9/16"



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freud
Precisely the best.



SECTION Y BITS & CUTTERS

PROFILING ROUTER BITS

BULLNOSE CARBIDE TIP BIT

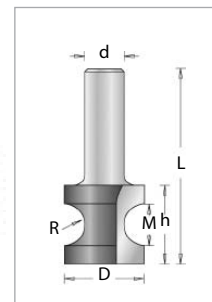
2 Flute, 1/2" Shank



- Application: Ideal for shaping stair treads, window sills, table and counter edges, shelves, and making moldings
- The "nose diameter" (M) is the thickness of stock that can be nosed, given a full 180° roundover
- Flats at top and bottom of the cutting edges create fillets on stock thicker than the nose diameter
- Must be used with an edge guide on handheld routers or the fence on a router table

Packing & Sold In: Each

DIMENSIONS (SORTED BY CUTTING DIAMETER)						
Item#	D Cutting Diameter	h Cutting Depth	R Radius	M	d Shank Diameter	L Overall Length
AA51550	17/32"	1/2"	5/64"	5/32"	1/2"	2"
AA51558	1-1/32"	1"	17/64"	35/64"	1/2"	2-1/2"
AA51560	1-1/4"	1-5/16"	3/8"	3/4"	1/2"	2-3/4"
AA51562	1-11/16"	1-9/16"	1/2"	1"	1/2"	3-1/16"
AA51564	2"	2"	5/8"	1-1/4"	1/2"	3-1/2"



BULLNOSE CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

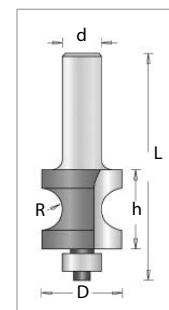
2 Flute, 1/2" Shank



- Application: Ideal for shaping stair treads, window sills, table and counter edges, shelves, and making moldings when using a template or pattern
- The "nose diameter" (M) is the thickness of stock that can be nosed, given a full 180° roundover
- Flats at top and bottom of the cutting edges create fillets on stock thicker than the nose diameter
- Ball bearing is the same size as the small diameter of the bit and rides against the template for an exact duplication

Packing & Sold In: Each

DIMENSIONS					
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
AA51572	1-3/8"	1-5/16"	3/8"	1/2"	3-1/4"



HAND GRIP PLUNGE WITH OR WITHOUT BALL BEARING GUIDE

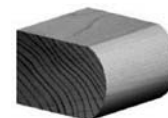
2 Flute, 1/2" Shank



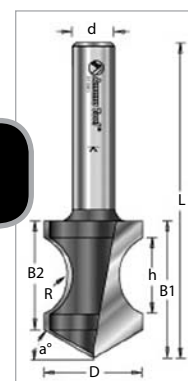
- Application: Intended for forming and edging internal hand-holds and cutouts in a single pass
- This bit will also cut a soft bullnose on any exposed edge bullnose on any exposed edge
- Available with a shank-mounted ball bearing for cuts guided by a template (AA51592)
- AA51592 can be used in a handheld or table-mounted router; AA51590 is for use in a CNC or other automatic router
- Plunge cuts on router table are not recommended

Packing & Sold In: Each

DIMENSIONS (SORTED BY CUTTING DIAMETER)								
Item#	D Cutting Diameter	a°	h Cutting Depth	B1	B2	R Radius	d Shank Diameter	L Overall Length
AA51590	1-1/8"	45°	1-9/16"	7/8"	1-1/4"	1/2"	1/2"	3-5/8"
AA51592	1-3/8"	45°	1-9/16"	7/8"	1-1/4"	1/2"	1/2"	3-5/8"



**NEW
ITEM!**



PROFILING ROUTER BITS

SECTION Y BITS & CUTTERS

BULL NOSE/COVE EDGE CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

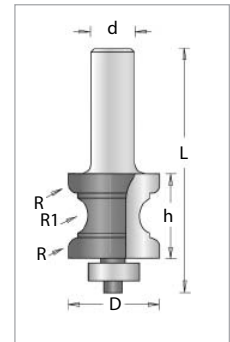
2 Flute, 1/2" Shank

- Application: Cut a thumbnail in a single pass, flanked top and bottom by a fillet and a cove
- The tool is equipped with a ball-bearing guide for template work

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER)						
Item#	D Cutting Diameter	h Cutting Depth	R Radius	R1 Radius	d Shank Diameter	L Overall Length
AA51530	1-1/8"	1"	1/8"	1/4"	1/2"	2-7/8"
AA51534	1-3/8"	1-9/16"	3/16"	1/2"	1/2"	3-3/8"



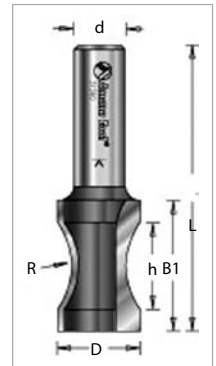
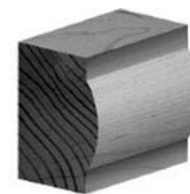
CONVEX EDGING ROUTER BIT

2 Flute, 1/2" Shank

- Application: Cuts a shallow arc, a fingernail shape rather than a full 180-degree roundover
- Like a bullnose radius bit, it has short flats above and below the cutter arc, which produce fillets on stock thicker than 7/8"
- Must be used with an edge guide on handheld routers or the fence on a router table

Packing & Sold In: Each

DIMENSIONS						
Item#	D Cutting Diameter	h Cutting Depth	B1	R Radius	d Shank Diameter	L Overall Length
AA51582	13/16"	27/32"	27/32"	23/32"	1/2"	2-3/4"



**NEW
ITEM!**



CORNER BEADING CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/4" & 1/2" Shank

- Application: Particularly suitable for antique reproductions and restoration projects
- Produce three slightly different profiles using this bit—an edge bead with or without a fillet and a full corner bead—by altering the bit extension or rolling the workpiece between passes
- Use in a handheld or table-mounted router

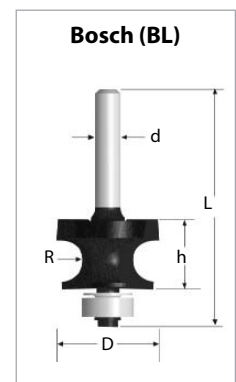
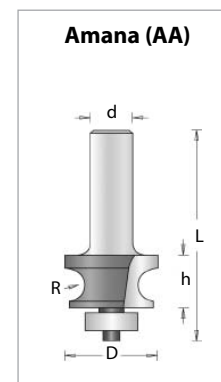
Packing & Sold In: Each



BOSCH



DIMENSIONS (SORTED BY CUTTING DIAMETER)						
	Item #	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
1/4" SHANK	AA54160	7/8"	9/16"	1/8"	1/4"	2-1/8"
	BL85631M	7/8"	9/16"	1/8"	1/4"	2-1/8"
	AA54164	1-1/8"	11/16"	3/16"	1/4"	2-1/4"
	BL85666M	1-1/8"	11/16"	3/16"	1/4"	2-1/4"
	BL85668M	1-1/4"	3/4"	1/4"	1/4"	2-1/4"
1/2" SHANK	BL85632M	7/8"	9/16"	1/8"	1/2"	2-1/2"
	AA54166	1-1/8"	11/16"	3/16"	1/2"	2-5/8"
	AA54170	1-1/4"	3/4"	1/4"	1/2"	2-5/8"
	BL85669M	1-1/4"	3/4"	1/4"	1/2"	2-5/8"



SECTION Y BITS & CUTTERS

PROFILING ROUTER BITS

LEAF-EDGE ROUTER BITS WITH DOUBLE BALL BEARING GUIDE

2 Flute, 1/2" Shank



- Application: In one pass, this router bit forms a round-edged groove near the corner of the workpiece; a second pass on the adjoining face yields a delicate leaf-shaped corner bead
- Use in handheld or table-mounted router

Packing & Sold In: Each

Item#	DIMENSIONS				
	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
AA54190	1"	1/2"	3/16"	1/41"	2-1/2"



MATCHED BEAD CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

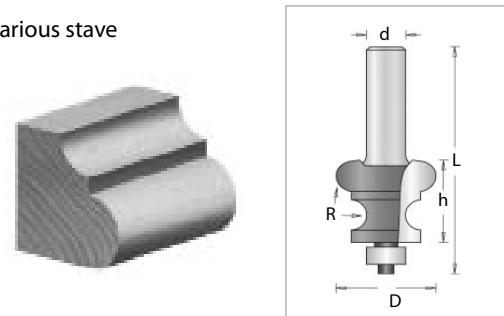
2 Flute, 1/2" Shank



- Application: Dual purpose bit produces both moldings and joints
- Use in place of matched flute-and-bead bit sets to mill the edges of strips used in various stave constructions like planters, canoes and hot tubs
- Switch from fluting to beading by raising or lowering the bit
- Pilot bearing allows use for template-guided cuts

Packing & Sold In: Each

Item#	DIMENSIONS				
	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
AA54186	1-1/4"	1"	3/16"	1/2"	2-7/8"

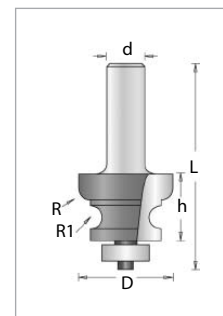


EDGE MOLDING CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/2" Shank

- Application: Edge detailing or molding
- This bit produces a torus-and-cove profile
- The pilot bearing allows you to make template-guided cuts with this bit
- Use in a handheld or table-mounted router

Packing & Sold In: Each



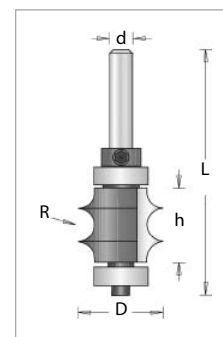
Item#	DIMENSIONS					
	D Cutting Diameter	h Cutting Depth	R Radius	R1 Radius	d Shank Diameter	L Overall Length
AA54324	1"	7/8"	7/32"	15/64"	1/2"	2-7/8"

MULTI-EDGE BEADING CARBIDE TIP BIT WITH DOUBLE BALL BEARING GUIDES

2 Flute, 1/4" Shank

- Application: Produce beading detail on edges or moldings
- Use in handheld or table-mounted routers

Packing & Sold In: Each



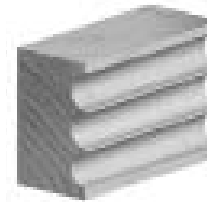
Item#	DIMENSIONS				
	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
AA54296	1"	7/8"	3/16"	1/4"	2-7/8"

TRIPLE BEADING/TRIPLE FLUTING CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

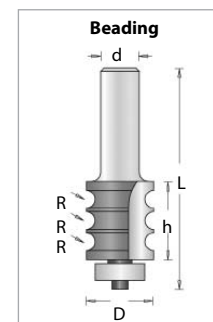
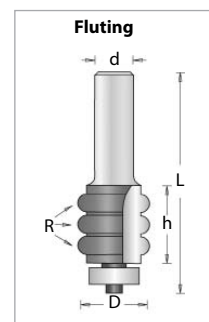
2 Flute, 1/2" Shank

- Application: Three uniform beads or flutes are formed in one pass with these bits
- Produce reeded or fluted pilasters or table legs referencing opposite faces of the work piece
- Use in a handheld or table-mounted router

Packing & Sold In: Each



Item#	DIMENSIONS					
	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length	Type
AA54213	7/8"	1"	1/8"	1/2"	3"	Beading
AA54217	7/8"	1"	1/8"	1/2"	2"	Fluting



SECTION Y BITS & CUTTERS

PROFILING ROUTER BITS

BEADING CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/4" & 1/2" Shank

- Application: For creating decorative edges and rounded edges to furniture and millwork
- Cuts a quarter-round shape bounded by fillets, known as a bead, in one pass with this bit
- The width of one fillet is set by the pilot bearing size, while the other is controlled by the depth of cut
- A beading bit can be transformed into a corner rounding bit by changing the bearing (and vice versa)
- Cuts all composite materials, plywoods, hardwoods, and softwoods

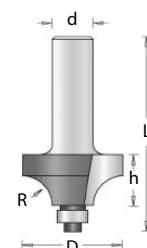
Packing & Sold In: Each



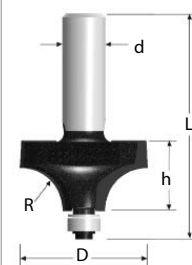
BOSCH



Amana (AA)



Bosch (BL)



DIMENSIONS (SORTED BY CUTTING DIAMETER)

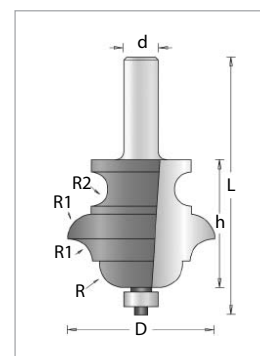
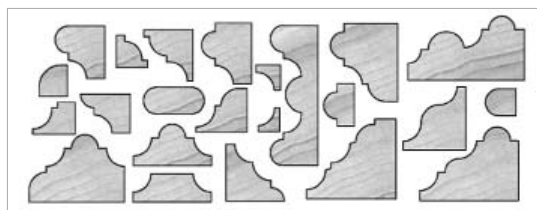
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
1/4" SHANK					
AA49596	3/4"	3/8"	1/8"	1/4"	2"
AA49600	7/8"	1/2"	3/16"	1/4"	2"
AA49604	1"	1/2"	1/4"	1/4"	2"
AA49612	1-1/4"	5/8"	3/8"	1/4"	2-3/16"
BL85496M	1-1/4"	5/8"	3/8"	1/4"	2-3/16"
AA49616	1-1/2"	3/4"	1/2"	1/4"	2-1/4"
1/2" SHANK					
AA49602	7/8"	1/2"	3/16"	1/2"	2-7/16"
AA49619	1-3/4"	7/8"	5/8"	1/2"	2-3/4"

MULTI-FORM CARBIDE TIP BIT WITH BALL BEARING GUIDE

2 Flute, 1/2" Shank

- Application: Multi-form bit can be used to cut over 40 different molding patterns
- By making simple adjustments to the cutter height and fence position, and making two or more passes, you can achieve a wide variety of profiles and architectural details
- Recommended for use in a router table

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER)

Item#	D Cutting Diameter	h Cutting Depth	R Radius	R1 Radius	R2 Radius	d Shank Diameter	L Overall Length
AA54198	1-1/4"	1"	3/16"	9/64"	1/8"	1/2"	2-3/4"
AA54200	2-1/4"	1-7/8"	23/64"	21/64"	1/4"	1/2"	4"

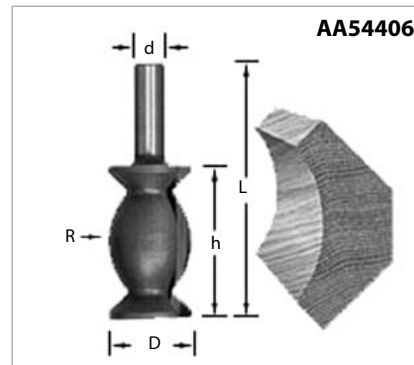
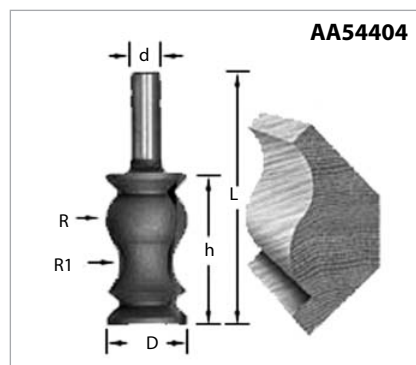
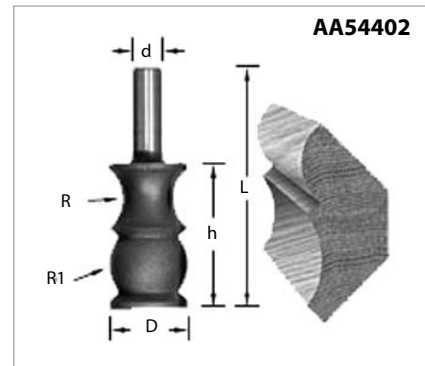
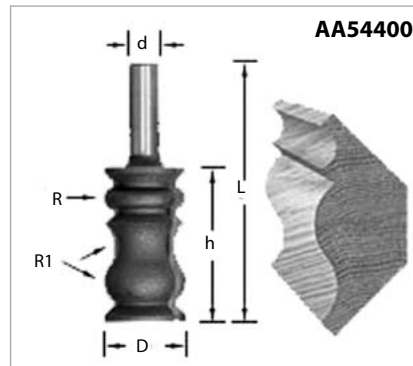
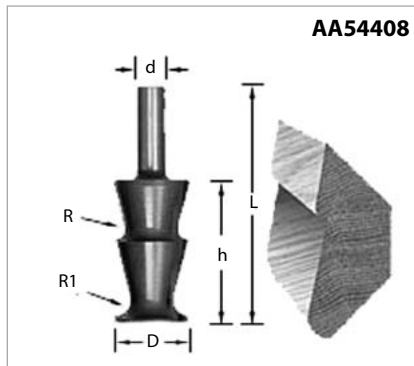
CROWN MOLDING CARBIDE TIP BIT

2 Flute, 1/2" Shank



- Application: Produce mid-sized crown, cove and bead molding profiles for architectural and furniture applications
- The bits cut the profile and bevel, as necessary, which is the show face of the work piece
- Bevel the top and bottom edges on the table saw to complete the molding
- Use a 2+ horsepower router, mounted in a table with a fence to guide the work to prolong cutter life and reduce strain on the router
- To get the best cut finish make several passes to achieve full cut depth. Bevel back edges, cutting off 45° excess with a chamfer bit

Packing & Sold In: Each



DIMENSIONS

Item#	D Cutting Diameter	h Cutting Depth	R Radius	R1 Radius	d Shank Diameter	L Overall Length
AA54408	1-1/4"	2-1/4"	5/32"	15/64"	1/2"	3-3/4"
AA54400	1-1/4"	2-1/4"	3/16"	7/16"	1/2"	3-3/4"
AA54402	1-1/4"	2-1/4"	1/2"	3/4"	1/2"	3-3/4"
AA54404	1-1/4"	2-1/4"	17/32"	17/32"	1/2"	3-3/4"
AA54406	1-1/4"	2-1/4"	1-3/16"	-	1/2"	3-3/4"

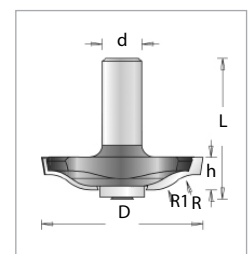
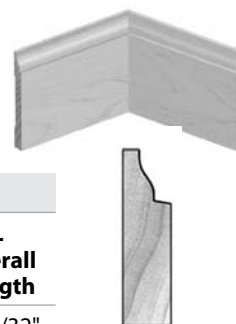
BASE MOLDING OGEE EDGE CARBIDE TIP BIT WITH BALL BEARING GUIDE

2 Flute, 1/2" Shank



- Application: For creating high quality base moldings

Packing & Sold In: Each



DIMENSIONS

Item#	D Cutting Diameter	h Cutting Dimensions	R Radius	R1 Radius	d Shank Diameter	L Overall Length
AA54299	1/53/64"	3/8"	19/64"	13/32"	1/2"	1-13/32"

HANDRAIL/TABLE EDGE CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

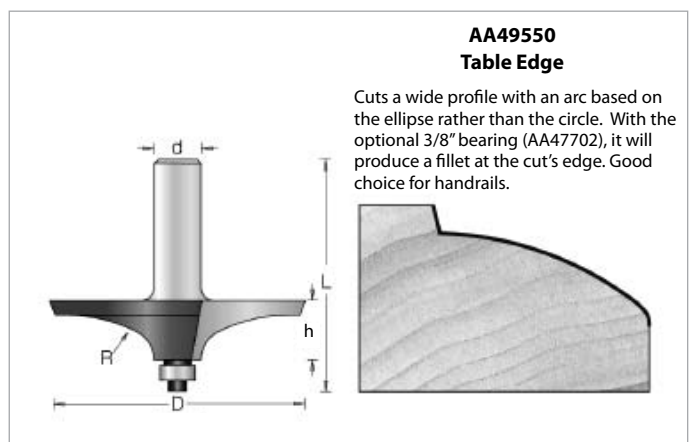
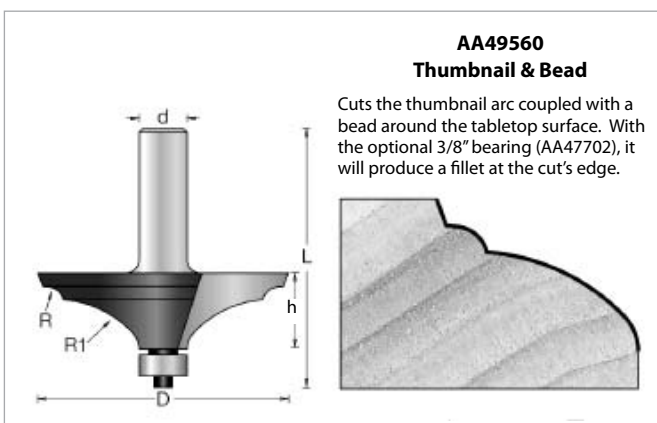
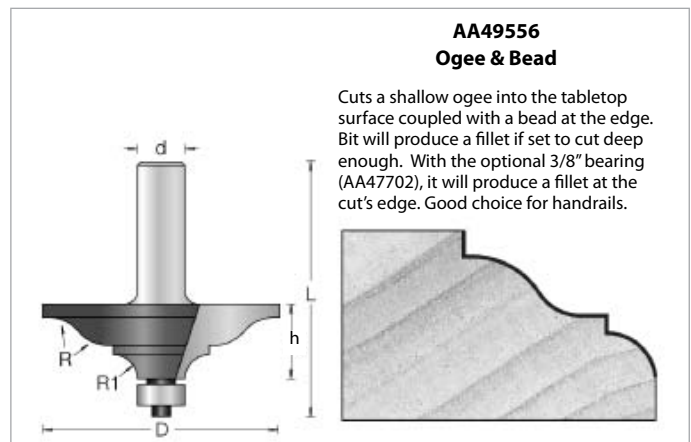
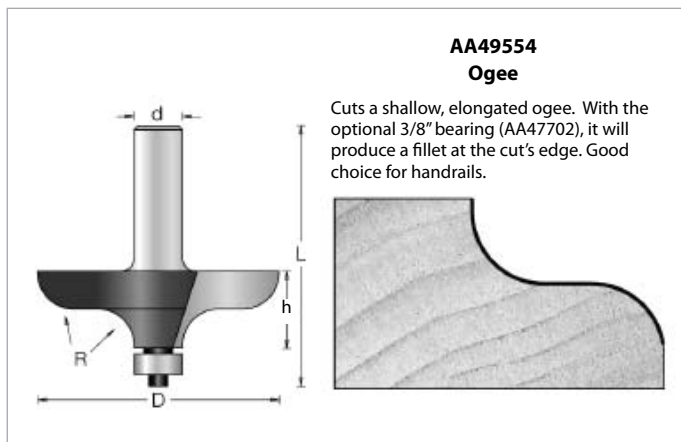
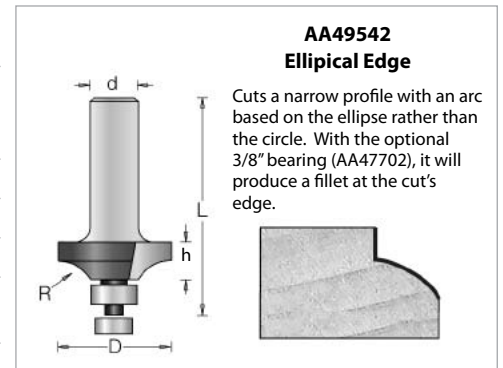
2 Flute, 1/2" Shank



- Application: Used for cutting table top edges or used with handrail side profile bits (see page Y-42)
- Originally designed for easing and profiling the edges of tabletops, these bits also are widely used for the same purpose on handrails
- Eliminate hard edges, reduce the visual thickness of a table top and add an elegant detail simultaneously

Packing & Sold In: Each

DIMENSIONS (SORTED BY CUTTING DIAMETER)							
Item#	D Cutting Diameter	h Cutting Depth	R Radius	R1 Radius	d Shank Diameter	L Overall Length	Edge Type
AA49542	1-3/16"	3/8"	15/32"	-	1/2"	2-1/4"	Ellipical
AA49554	2-1/2"	3/4"	3/8"	-	1/2"	2-3/4"	Ogee
AA49556	2-1/2"	3/4"	3/8"	1/4"	1/2"	2-3/4"	Ogee & Bead
AA49560	2-9/16"	3/4"	11/64"	11/64"	1/2"	2-3/4"	Thumbnail & Bead
AA49550	2-3/4"	5/8"	1-3/4"	-	1/2"	2-1/2"	Table Edge



HANDRAIL SIDE CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/2" Shank

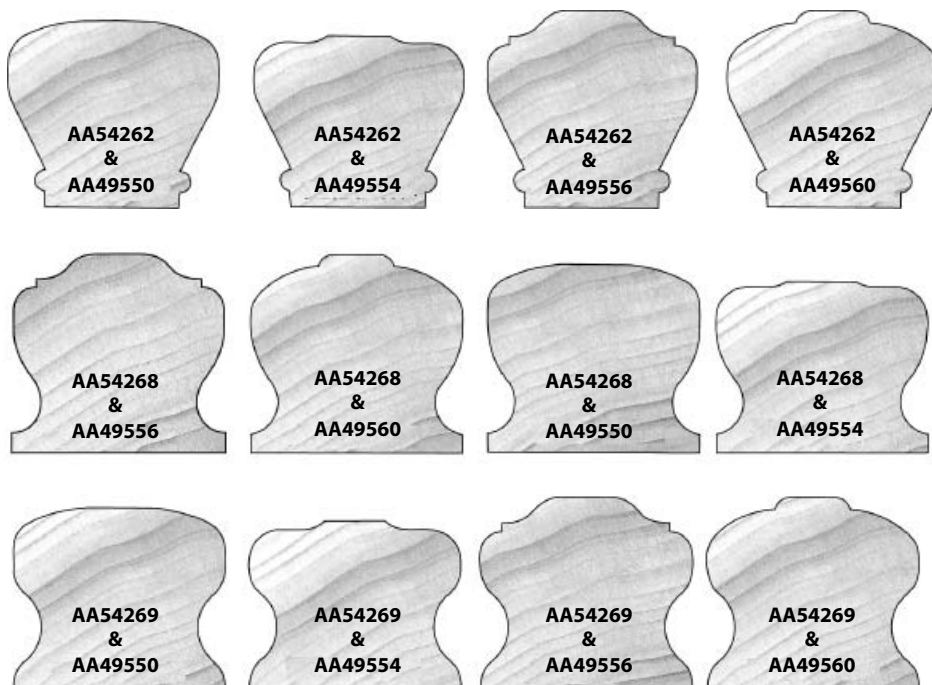
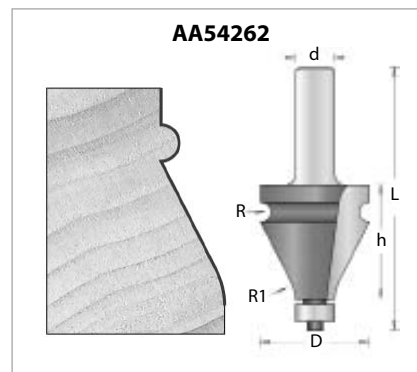
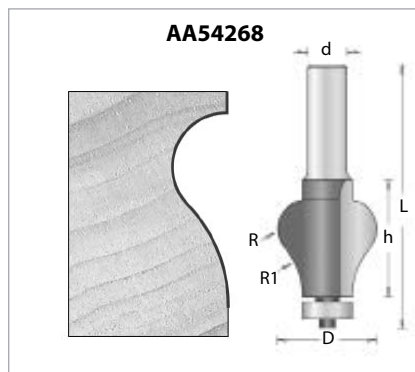
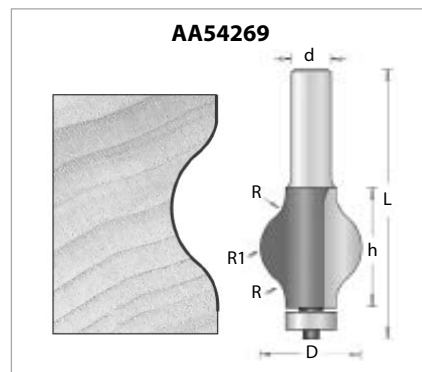


- Application: Used to shape the sides of a handrail to make it both attractive and easy to grip
- After routing, ease the top edge with the table edge bits shown on page Y-41
- For use in handheld or table-mount routers

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)						
Item#	D Cutting Diameter	h Cutting Depth	R Radius	R1 Radius	d Shank Diameter	L Overall Length
AA54269	1-1/4"	1-1/2"	3/8"	1/2"	1/2"	3-3/8"
AA54268	1-1/4"	1-1/2"	3/8"	1"	1/2"	3-3/8"
AA54262	1-3/8"	1-1/2"	1/8"	19/32"	1/2"	3-3/8"



SECTION Y BITS & CUTTERS

RABBETING ROUTER BITS

RABBET CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/4" & 1/2" Shank

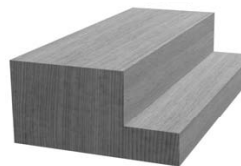
- Application: Creates a channel along the edge of a piece of wood, for example to rabbet the inside edge of the back of a picture frame to create a seat for the glass
- Allows rabbeting cuts without the use of a router guide
- Use in all handheld and table-mounted routers

NOTE: To alter the width on Amana (AA) bits, purchase either the AA47702 bearing (7/16" W rabbet) or AA47720 bearing (1/4" W rabbet)

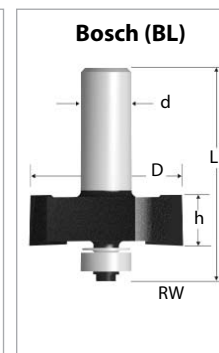
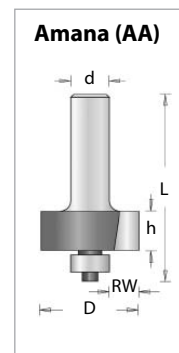
Packing & Sold In: Each



BOSCH



DIMENSIONS (SORTED BY RABBET WIDTH)					
Item #	RW Rabbet Width	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
1/4" SHANK					
AA49300	3/8"	1-1/4"	1/2"	1/4"	2"
BL85218M	3/8"	1-1/4"	1/2"	1/4"	2"
BL85614M	1/2"	1-3/8"	1/2"	1/4"	2"
1/2" SHANK					
AA49302	3/8"	1-1/4"	1/2"	1/2"	2-3/8"
BL85590M	3/8"	1-1/4"	1/2"	1/2"	2-3/8"
BL85615M	1/2"	1-3/8"	1/2"	1/2"	2-3/8"

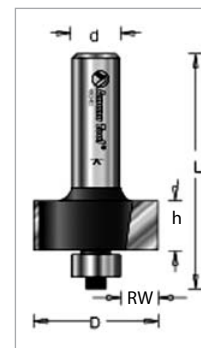


MULTI-RABBET SET CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/4" & 1/2" Shank

- Application: The Multi-Rabbet bit steps in 1/16" increments from a 1/8" cut width to 1/2" simply by switching ball bearing guides
- Six different bearings are provided
- Depth of cut capacity of 1/2"
- Use in any handheld or table-mounted router

Packing & Sold In: Each



DIMENSIONS					
Item#	RW Rabbet Width	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
1/4" SHANK					
AA49340	1/8" to 1/2"	1-3/8"	1/2"	1/4"	2"
1/2" SHANK					
AA49350	1/8" to 1/2"	1-3/8"	1/2"	1/2"	2-3/8"

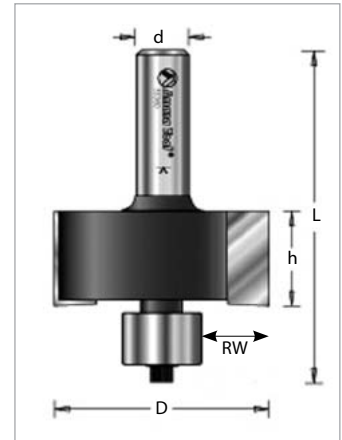
RABBIT CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/2" Shank

- Application: Enables rabbet cuts from flush through 3/4" in 1/16" increments, and five undersized plywood sizes, using optional collars (illustrated below)
- Particularly useful when working with large stock, or when a precise rabbet depth is required
- 16 different rabbet sizes available between the standard and optional collars
- Supplied with 2" diameter rabbet bit, hex key, instructions and all necessary parts for 5/8" and 3/4" depth rabbets

Packing & Sold In: Each

DIMENSIONS					
Item#	RW Rabbet Width	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA49360	Flush through 3/4"	2"	7/8"	1/2"	3"

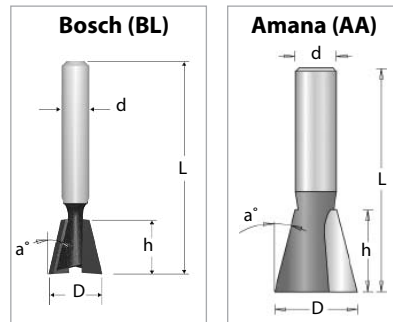


DOVETAIL CARBIDE TIP BIT

2 Flute, 1/4" & 1/2" Shank

- Application: The strongest construction method for drawers, boxes, chests and fine casework
- Many router dovetail jigs require special bits for cutting half-blind and through dovetails
- Bits below are designed for namebrand dovetail jigs as well as stair stringers

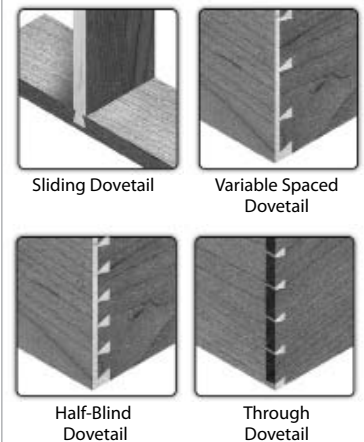
Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER)						
Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	Application Jig Brand	a° Angle
1/4" SHANK						
AA45820	1/4"	5/16"	1/4"	2-1/2"	Incra/Omnijig	7-1/2°
AA45800	3/8"	3/8"	1/4"	2"	Incra	9°
AA45804	1/2"	1/2"	1/4"	1-3/4"	Incra	14°
BL85240M	17/30"	1/2"	1/4"	1-7/8"	Micro Grain	15°
1/2" SHANK						
AA45802	3/8"	3/8"	1/2"	2"	Incra	9°
AA45806	1/2"	.532	1/2"	2-1/2"	Incra	14°
AA45812	7/8"	7/8"	1/2"	2-1/2"	Stair Stringers	7°
AA45816	3/4"	3/4"	1/2"	3"	Incra	14°



Dovetail Types



Pictures above show a variety of dovetails. For correct bits and settings, please refer to your dovetail jig owners manual.

SECTION Y

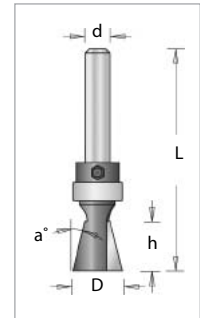
BITS & CUTTERS

DOVETAIL CARBIDE TIP BIT W/ TOP MOUNT BALL BEARING GUIDE

2 Flute, 1/4" Shank

- Application: Shank-mounted ball-bearing guide for routing dovetail slots following a template and pattern routing
- The template must be mounted between the workpiece and the router
- With a handheld router, the template must be on top of the work
- With a table-mounted router, the template must be underneath the workpiece

Packing & Sold In: Each



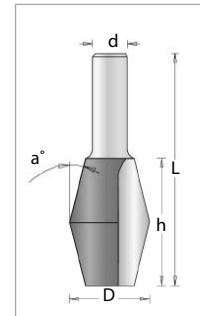
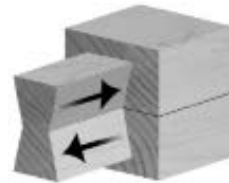
Item#	DIMENSIONS				
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	a° Angle
AA45850	1/2"	1/2"	1/4"	2-1/4"	14°

DOVETAIL 14° BUTTERFLY SPLINE CARBIDE TIP BIT

2 Flute, 1/2" Shank

- Application: Cut butterfly keys, splines and inlays with this bit
- Compliments Amana Tool's 14 Degree dovetail bits
- Use in table-mounted router

Packing & Sold In: Each



Item#	DIMENSIONS				
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	a° Angle
AA45860	1-1/8"	1-3/4"	1/2"	3-1/4"	14°

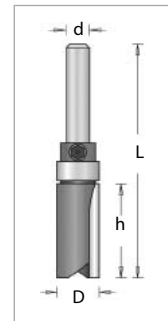
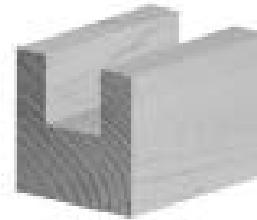
KELLER DOVETAIL SYSTEM CARBIDE TIP BIT WITH TOP MOUNT BALL BEARING GUIDE

2 Flute, 1/4" Shank

- Application: Keller templates require the use of straight and dovetail bits with shank-mounted pilot bearings
- Bit is designed for use in the Keller System

Packing & Sold In: Each

Item#	DIMENSIONS			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA45470	0.615"	3/4"	1/4"	2-5/8"



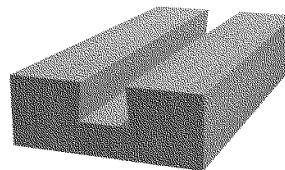
STAIR TREAD ROUTING CARBIDE TIP BIT

2 Flute, 1/2" Shank

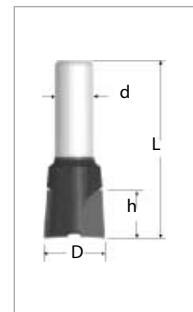
- Application: Micro grain bit cuts a dovetail-like joint for cutting stair stringers

Packing & Sold In: Each

Item#	DIMENSIONS				
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length	Angle
BL85413M	7/8 "	7/8"	1/2 "	2-1/2"	3°



BOSCH



SECTION Y BITS & CUTTERS

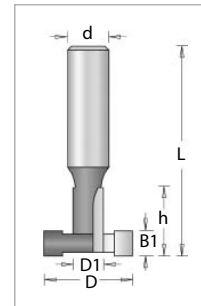
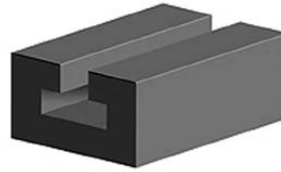
JOINTING ROUTER BITS

WALL PANEL STRAIGHT T-SLOT CARBIDE TIP BIT 2 Flute, 1/2" Shank

- Application: Designed for cutting T-slots in wall panels
- For best results use in CNC and table-mounted routers

NOTE: Bits are not designed for plunging operations

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)

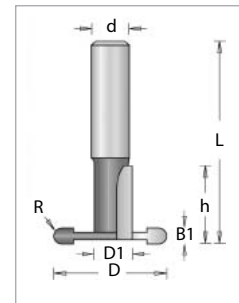
Item#	D Cutting Diameter	h Cutting Dimensions	D1	B1	d Shank Diameter	L Overall Length
AA45660	1-1/8"	13/16"	3/8"	5/16"	1/2"	2-1/2"
AA45662	1-3/8"	7/8"	1/2"	3/8"	1/2"	2-1/2"

AMEROCK HINGE T-SLOT CARBIDE TIP BIT 2 Flute, 3/8" Shank

- Application: Designed for cutting T-slots for Amerock hinges
- For best results use in table-mounted routers

NOTE: Bits are not guaranteed by the manufacturer due to fragility and application

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)

Item#	D Cutting Diameter	h Cutting Dimensions	D1	B1	R	d Shank Diameter	L Overall Length
AA48100	1-1/8"	21/32"	3/8"	5/32"	5/64"	3/8"	2"
AA48102	1-19/32"	21/32"	3/8"	5/32"	5/64"	3/8"	2"

KEYHOLE SLOT CARBIDE TIP BIT Single Flute, 1/4" Shank

- Application: Form keyhole slots in plaques, picture frames, and other wall hanging items
- Plunge to form the entry, then advance the router to cut a short T-slot
- Use in a handheld plunge router

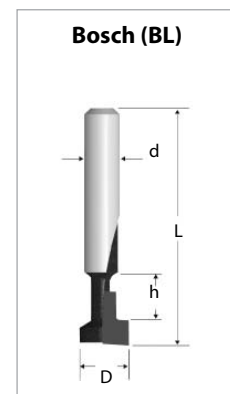
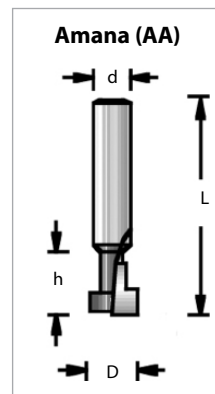
Packing & Sold In: Each



BOSCH

DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)

Item#	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA45650	3/8"	3/8"	1/4"	1-1/2"
BL85608M	3/8"	3/8"	1/4"	1-1/2"
AA45652	1/2"	3/8"	1/4"	1-1/2"

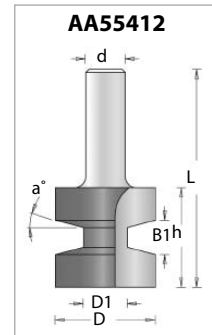
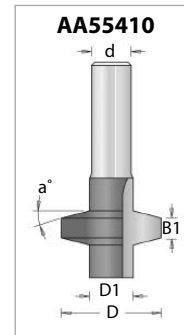
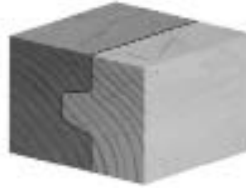


WEDGE TONGUE & GROOVE CARBIDE TIP BIT

2 Flute, 1/2" Shank

- Application: Use for applications as diverse as assembling broad tabletops and other panels and making strip flooring
- Use on stock from 5/8" through 1-1/4" thick
- Use in a table-mounted router

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)

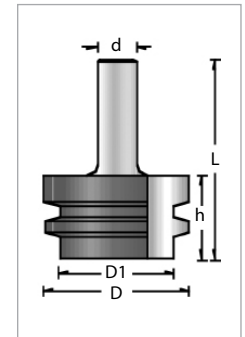
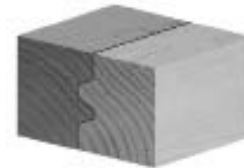
Item#	D Cutting Diameter	h Cutting Depth	D1	B1	a°	d Shank Diameter	L Overall Length	Application
AA55410	1-1/4"	1-1/4"	9/16"	1/4"	15°	1/2"	2-3/4"	Wedge Groove
AA55412	1-1/4"	1-1/4"	9/16"	7/16"	15°	1/2"	2-3/4"	Wedge Tongue

GLUE JOINT CARBIDE TIP BIT

2 Flute, 1/2" Shank

- Application: Use for side-to-side board glue-up, as well as for door panels, table tops and cabinets
- The glue joint router bit creates a mechanical joint for wood pieces to be glued; this joint adds tremendous strength and ensures accurate alignment of the two pieces of wood
- The glue joint cut by this bit is strong and self-aligning; one setup produces both halves of the joint
- Bit works on stock center between 5/8" and 1" in thickness
- Must be used in a table-mounted router; since there is a no guide bearing, use the router-table fence to control the cut

Packing & Sold In: Each



DIMENSIONS

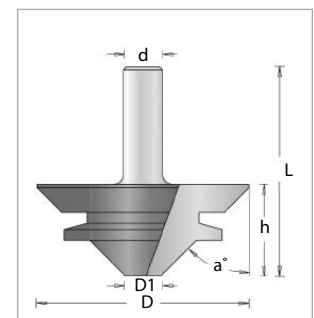
Item#	D Cutting Diameter	h Cutting Depth	D1	d Shank Diameter	L Overall Length
AA55388	1-7/8"	1-3/32"	1-7/16"	1/2"	2-5/8"

45° LOCK MITER CARBIDE TIP BIT

1/2" Shank

- Application: Interlocking edge-to-edge joint, typically used at the corners of casework
- First piece is cut flat (horizontal) and the second is cut perpendicular (vertical) to the first for a perfect fit
- No need to re-align the router depth, provided that the wood is centered to the cutting edge of the bit
- Not recommended for use in a pin router nor a router table unless the length of your material can be handled easily

Packing & Sold In: Each



DIMENSIONS

Item#	D Cutting Diameter	h Cutting Dimensions	D1	a° Angle	d Shank Diameter	L Overall Length
AA55390	2-11/16"	1-3/16"	9.2mm	45°	1/2"	2-5/8"

SECTION Y BITS & CUTTERS

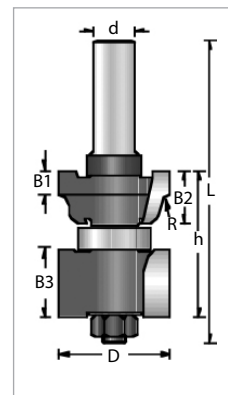
JOINTING ROUTER BITS

OGEE WINDOW SASH & RAIL CARBIDE TIP BIT WITH INTERCHANGEABLE BALL BEARING GUIDE

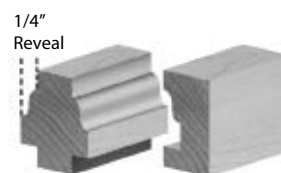
2 Wing, 1/2" Shank

- Application: This reversible assembly is designed to cut window sash and glass door parts, including rails, stiles, mullions, and muntins
- Use on stock between 1-1/8" and 1-3/4" thick
- Assembly includes an ogee profile cutter, a rabbet cutter, one bearing, a 1/2" shank arbor, spacers, shims, and washers
- Configure as shown in the drawing to cut profile and rabbet on all parts; switch bearing and profile cutter and replace rabbet cutter with spacers to rout the copes
- Includes full color instruction manual

Packing & Sold In: Each



DIMENSIONS								
Item#	D Cutting Diameter	h Cutting Depth	B1	B2	B3	R Radius	d Shank Diameter	L Overall Length
AA55340	1-3/8"	1-13/16"	5/16"	5/8"	7/8"	1/8"	1/2"	3-3/4"

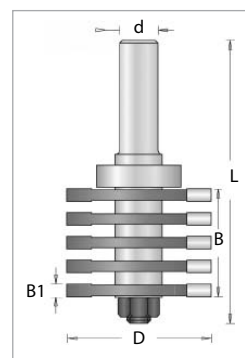


BOX JOINT SET WITH TOP MOUNT BALL BEARING GUIDE

3-Wing, 1/2" Shank

- Application: Contains 3-wing slotting cutters and spacers for producing jewelry boxes, drawers, etc.
- Complete with cutters, spacers, arbor and ball bearing to achieve 1/2" depth of cut
- Recommended stock thickness (height) 3/4" through 1-5/8"
- For material over 1-5/8", two passes will accomplish joints up to 3"

Packing & Sold In: Each



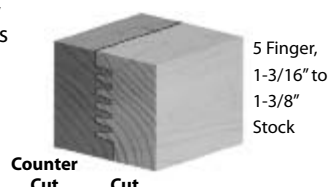
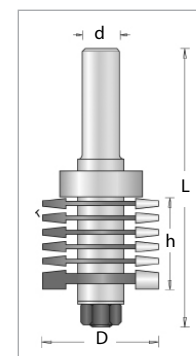
DIMENSIONS					
Item#	D Cutting Diameter	B Kerf	B1	d Shank Diameter	L Overall Length
AA53610	1-7/8"	1-3/8"	5/32"	1/2"	3-3/4"

FINGER JOINT ASSEMBLY WITH TOP MOUNT BALL BEARING GUIDE

2-Wing, 1/2" Shank

- Application: Ideal for joining wood end-to-end as well as edge-to-edge
- With this assembly, you can cut one-finger through five-fingers in multiple passes; both cuts are performed the same way, you simply turn over the counter-cut for a perfect fit (see diagram)
- All cutters feature "chipbreakers" behind each cutting tooth which limits the thickness of the chip, allowing for a safer cut
- Can be used on 7/16" (1-finger) through 1-3/8" stock (5-fingers)
- Assembly includes 5 individual finger cutters, 1/2" shank arbor, 1 straight cutter, ball bearing guide, shims, spacers, washers and complete illustrated instructions

Packing & Sold In: Each



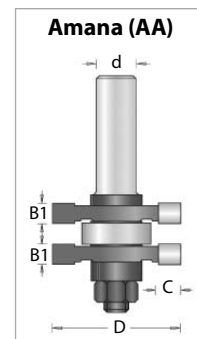
DIMENSIONS				
Item#	D Cutting Diameter	h Cutting Dimensions	d Shank Diameter	L Overall Length
AA55392	1-9/16"	1-3/8"	1/2"	3-3/4"

FIXED TONGUE & GROOVE ASSEMBLY CARBIDE TIP BIT WITH TOP MOUNT BALL BEARING GUIDE

2 Wing, 1/2" Shank

- Application: Cut perfectly fitted tongue-and-groove joints on stock with a table-mounted router and this assembly
- The tool consists of an arbor with an integral shank, two identical, removable slotting cutters, and a pair of bearings
- To cut tongues, sandwich one bearing between the two cutters
- To cut slots, mount one cutter between the two bearings

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER)

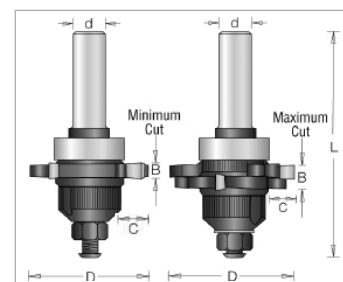
Item#	D Cutting Diameter	B1	C Cutting Length	d Shank Diameter	L Overall Length
AA55400	1-5/8"	1/4"	3/8"	1/2"	3"

ADJUSTABLE KERF SLOTTING CARBIDE TIP CUTTER E-Z Dial™, Shim-Free, 1/2" Shank



- Application: Groove edges for t-moldings, route tongue and groove joinery
- No shims and no spacers
- Adjusts in seconds - one full turn of the adjustment dial changes the slot width by 1/32"
- No need to disassemble; turn the dial and lock in the setting
- Dial adjusts in 0.004" increments
- Designed for use in a table-mounted router

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER/KERF)

Item#	D Cutting Diameter	B Kerf Adjustable	C Cutting Length	d Shank Diameter	L Overall Length
AA55500	2-1/8"	1/8"-1/4"	1/2"	1/2"	3-3/4"
AA55510	2-1/8"	1/4"-1/2"	1/2"	1/2"	3-3/4"



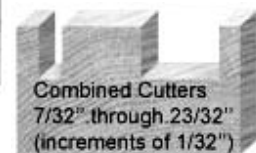
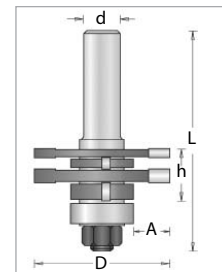
ADJUSTABLE KERF SLOTTING CARBIDE TIP WITH BALL BEARING GUIDE

Quadraset™, 2 Wing, 1/2" Shank

- Application: Groove edges for t-moldings, route tongue and groove joinery
- Adjustable slotting assembly includes 1/8", 5/32", 3/16" and 1/4" two-wing cutters, a 1/2" shank arbor with a pilot bearing, spacers, washers and shims
- Use the cutters individually on the arbor, or you can combine two, three or all the cutters on the arbor
- This allows you to cut slots that range in widths from 1/8" up to 23/32" in 1/32" increments
- Designed for use in a table-mounted router

Packing & Sold In: Each

Item#	DIMENSIONS				
	D Cutting Diameter	B Kerf	A	d Shank Diameter	L Overall Length
AA53600	1-7/8"	1/8"-23/32"	1/2"	1/2"	3"



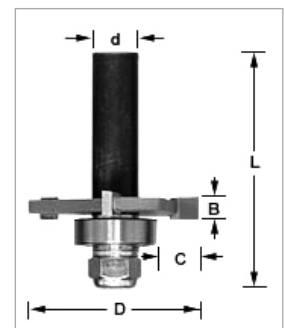
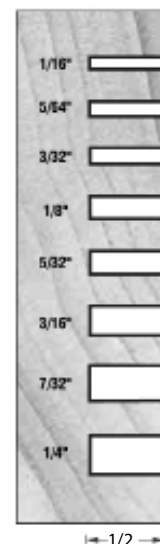
FIXED KERF CARBIDE TIP SLOTTING CUTTER

3 Wing, 1/4" Shank

- Application: Groove edges for t-moldings, route tongue and groove joinery
- Each assembly includes a cutter and bearing for 1/2" deep cut and a 1/4" shank arbor
- Use with all handheld and table-mounted routers

Packing & Sold In: Each

DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)					
Item#	D Cutting Diameter	B Kerf	C Cutting Length	d Shank Diameter	L Overall Length
AA53400	1-7/8"	1/16"	1/2"	1/4"	2-3/8"
AA53402	1-7/8"	5/64"	1/2"	1/4"	2-3/8"
AA53404	1-7/8"	3/32"	1/2"	1/4"	2-3/8"
AA53406	1-7/8"	1/8"	1/2"	1/4"	2-3/8"
AA53407	1-7/8"	5/32"	1/2"	1/4"	2-3/8"
AA53408	1-7/8"	3/16"	1/2"	1/4"	2-3/8"
AA53410	1-7/8"	1/4"	1/2"	1/4"	2-3/8"



SLOTING CUTTERS, 3 WING

5/16" Arbor Diameter

- Three-wing slotting cutters available individually
- Better finish than 2-wing cutters with a slightly reduced feed rate
- 5/32" kerf typically used for "biscuit-joint" cutting
- All are 5/16" shank bore diameter (d1)
- Amana and Bosch cutters are 1-7/8" overall diameter; Freud are 2" overall diameter (D)
- NOTE: These are cutters only, arbors sold separately below

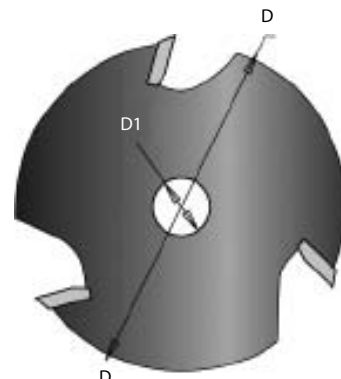
Packing & Sold In: Each

Kerf	Amana Item#	Bosch Item#	Freud Item#
1/16"	AA53200	BL85526M	AB56-100
5/64"	AA53202	BL85527M	-
3/32"	AA53204	BL85528M	AB56-106
1/8"	AA53206	BL85529M	AB56-108
5/32"	AA53207	BL85530M	AB56-109
3/16"	AA53208	BL85609M	-
1/4"	AA53210	BL85610M	AB56-112



BOSCH

freud
Precisely the best.



SLOTING CUTTER ARBORS,

5/16" ARBOR DIAMETER

1/4" & 1/2" Shank

- Application: Arbors for use with 2-wing and 3-wing slotting cutters
- All are 5/16" arbor diameter; available in 1/4" or 1/2" shank
- All include hex nuts and washers necessary for securing cutters

NOTE: These are arbors only, cutters sold separately.

Packing & Sold In: Each

		DIMENSIONS	
Item#	Use With	Shank Diameter	Overall Length
1/4" SHANK			
BL92813	3-Wing Cutters	1/4"	1-23/32"
AA47600	2 & 3-Wing Cutters	1/4"	2-3/8"
BL82810	2-Wing Cutters	1/4"	2-5/8"
1/2" SHANK			
AA47604	2 & 3-Wing Cutters	1/2"	2-3/8"
BL82811	3-Wing Cutters	1/2"	3"



BOSCH



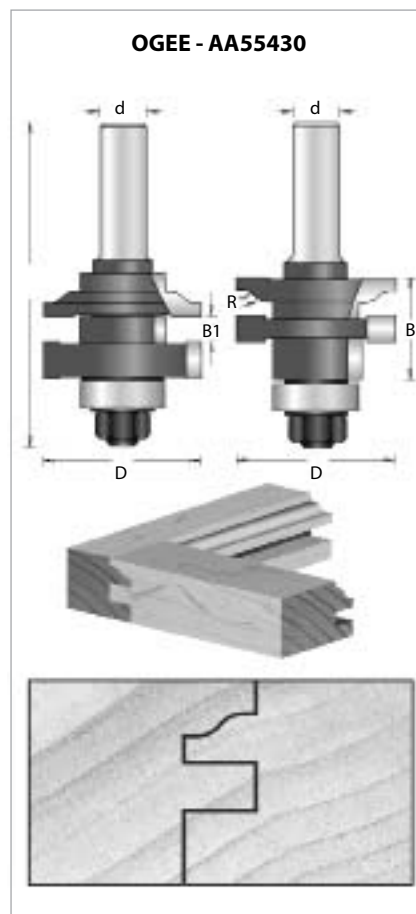
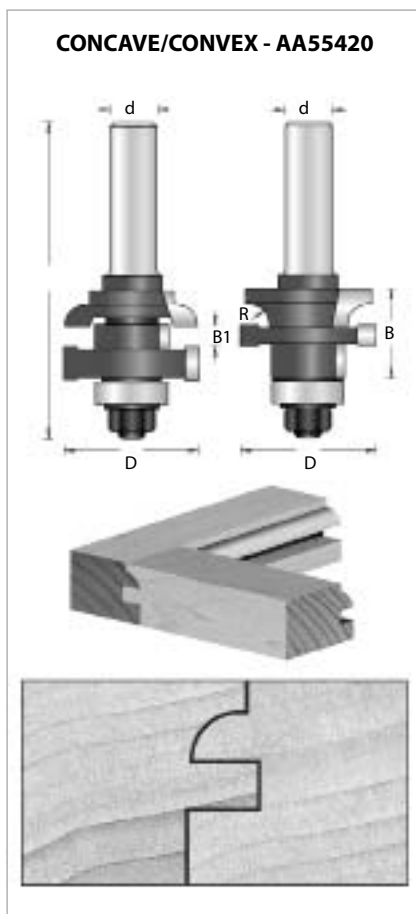
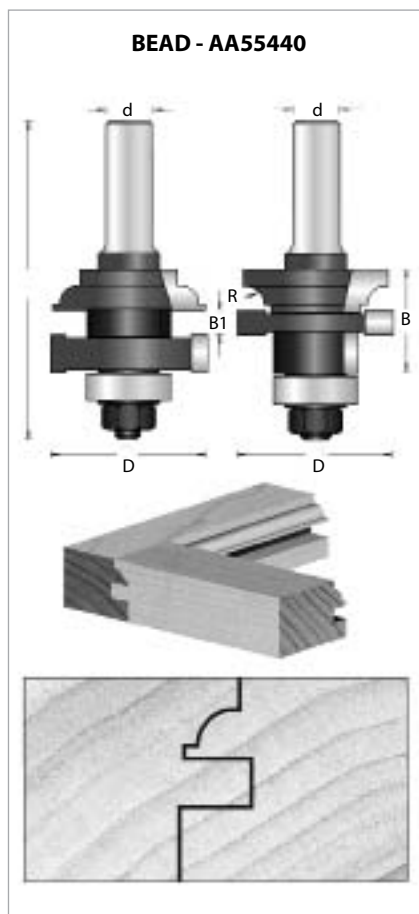
2-PIECE STILE & RAIL CARBIDE TIP SETS WITH BOTTOM MOUNT BALL BEARING GUIDE



2-Wing, 1/2" Shank

- Application: Make cabinet doors and all varieties of frame-and-panel assemblies for furniture and architectural applications
- For 3/4" to 1" thick material
- Set includes two complete bits, one for doing the rail cuts one for the stiles
- Bits in these sets have profile and groove or rabbet cutters and ball-bearing guide mounted on a 1/2" shank
- Respacing of the components should only be necessary - using the provided shims - after the cutters have been resharpened
- Designed for use in a table-mounted router
- Guide straight cuts with the fence; use the pilot bearing only for cuts on curved rails or stiles

Packing & Sold In: Each



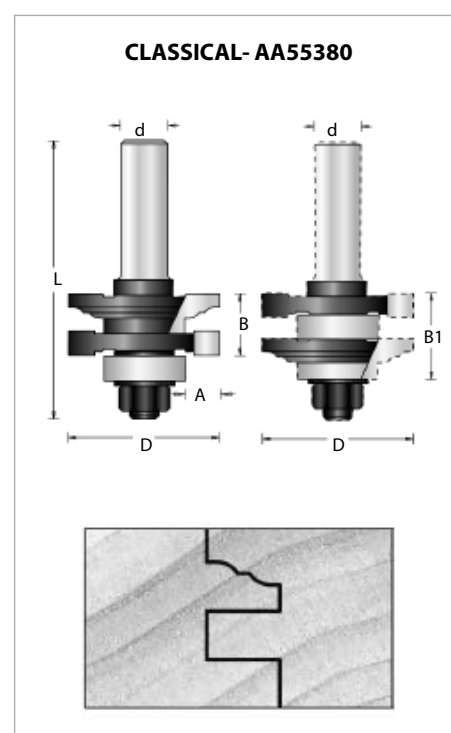
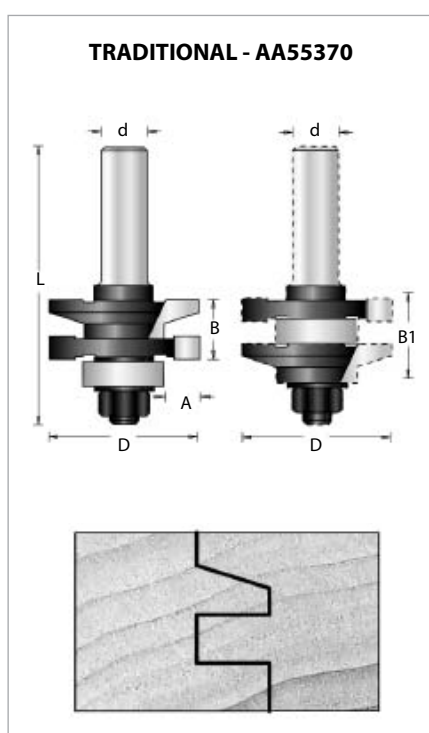
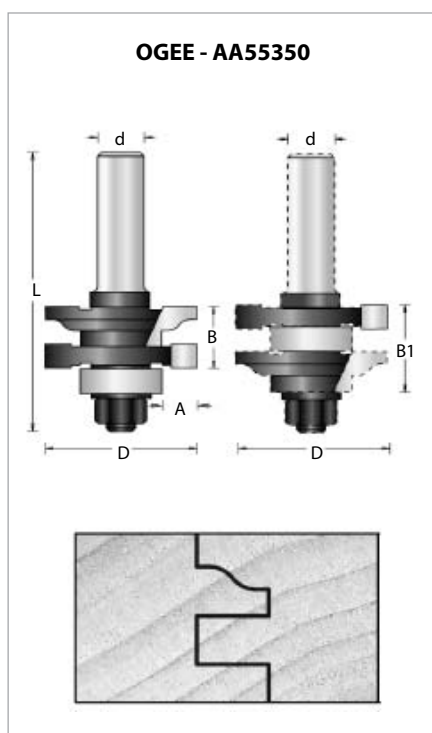
Item#	DIMENSIONS						Pattern Type
	D Cutting Diameter	R Radius	B	B1	d Shank Diameter	L Overall Length	
AA55440	1-5/8"	3/16"	1-1/16"	1/4"	1/2"	3-5/16"	Bead
AA55420	1-5/8"	1/4"	1-1/16"	1/4"	1/2"	3-5/16"	Concave
AA55430	1-5/8"	1/4"	1-1/16"	1/4"	1/2"	3-5/16"	Ogee

REVERSIBLE 2-PIECE STILE & RAIL CARBIDE TIP SETS WITH BOTTOM MOUNT BALL BEARING GUIDE

2-Wing, 1/2" Shank

- Application: Make cabinet doors and all varieties of frame-and-panel assemblies for furniture and architectural applications
- Reversible assembly allows you to both the stiles and rails with one assembly
- For 5/8" to 7/8" thick material
- Switch from the stile cut to the rail cut simply by rearranging the cutters and bearing on the arbor; since they are both cut with the same cutter you get a perfect fit
- Use in a table-mounted router
- Guide straight cuts with the fence; use the pilot bearing only for cuts on curved rails or stiles

Packing & Sold In: Each



Item#	DIMENSIONS						Pattern Type
	D Cutting Diameter	A Reveal	B	B1	d Shank Diameter	L Overall Length	
AA55350	1-5/8"	3/8"	11/16"	7/8"	1/2"	3"	Ogee
AA55370	1-5/8"	3/8"	11/16"	7/8"	1/2"	3"	Traditional
AA55380	1-5/8"	3/8"	11/16"	7/8"	1/2"	3"	Classical

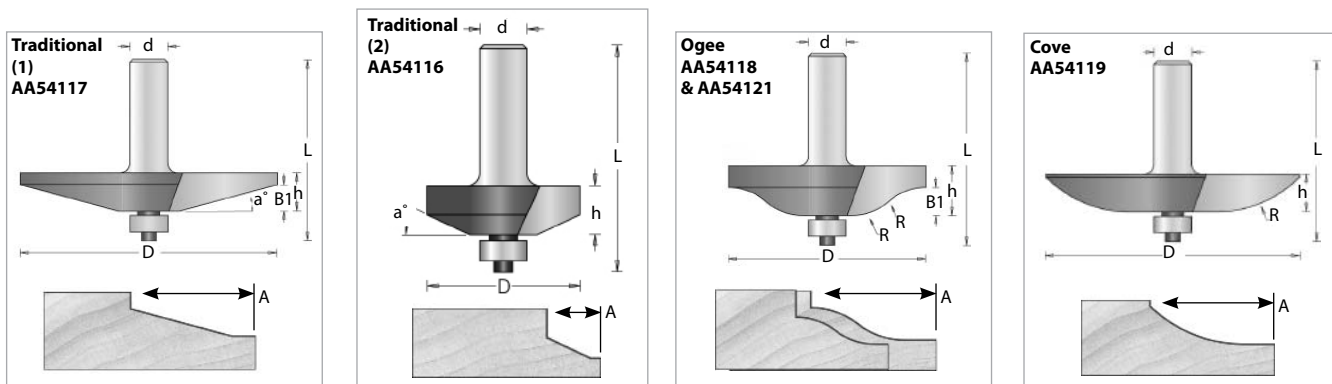


RAISED PANEL CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/2" Shank

- Application: Create raised panels for cabinet doors, frame and panel furniture and architectural paneling with curved edges
- The cutter forms a fillet to delineate the raised field, a shaped band around the field and an integral tongue to fit the panel groove in the frame members
- The profile contour and the reveal width varies
- Must be used in a table mounted 3+ horsepower router and run at reduced speed, multiple passes recommended

Packing & Sold In: Each



DIMENSIONS

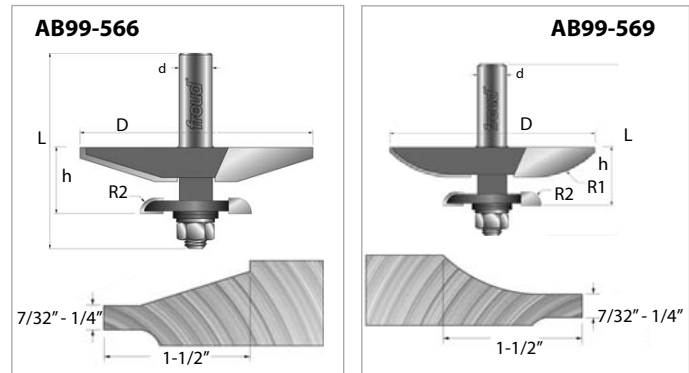
Pattern Type	Item#	D Cutting Diameter	h Cutting Depth	B1	R Radius	a° Angle	d Shank Diameter	L Overall Length	A Reveal
Traditional	AA54117	3-3/8"	1/2"	5/16"	–	15°	1/2"	2-3/8"	1-7/16"
Traditional	AA54116	1-5/8"	1/2"	–	–	25°	1/2"	2-3/8"	9/16"
Ogee	AA54118	2-5/8"	5/8"	5/16"	3/4"	–	1/2"	2-1/2"	1-7/16"
Ogee	AA54121	3-3/8"	9/16"	3/8"	7/8"	–	1/2"	2-1/2"	1-7/16"
Cove	AA54119	3-3/8"	1/2"	–	1-9/16"	–	1/2"	2-3/8"	1-7/16"

RAISED PANEL CARBIDE TIP BIT WITH BACKCUTTERS 2 Flute, 1/2" Shank



- Application: Producing panels from 3/4" stock that are flush with the doorframe for a professional, architecturally correct appearance
- Exclusive Quadra-Cut™ design combines a backcutter with the smooth cuts of Freud's 2+2 Raised Panel Bits
- Included 54-562 radius backcutter gives double-sided appearance
- 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
- Use on table-mounted portable routers

Packing & Sold In: Each



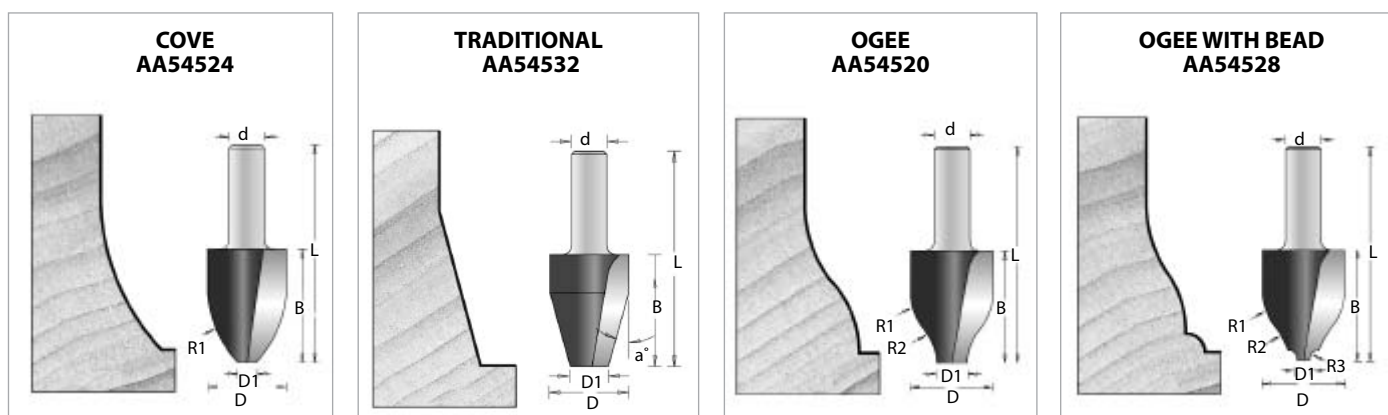
DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)						
Item#	D Cutting Diameter	h Cutting Depth	R1 Large Radius	R2 Small Radius	d Shank Diameter	L Overall Length
AB99-566	3-1/2"	1"	-	3/16"	1/2"	3"
AB99-569	3-1/2"	1"	1-1/2"	3/16"	1/2"	3"

VERTICAL RAISED PANEL CARBIDE TIP BIT 2 Flute, 1/2" Shank



- Application: Make raised panels with a low-horsepower, fixed speed router using these patented vertical raised panel bits
- Work must be done on a router table, with the work on the edge, braced against the fence
- Arched or curved shapes (i.e. "cathedral" door panels) cannot be routed
- To prolong tool life and get the best cut finish, several passes are recommended

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)									
Item#	D Cutting Diameter	D1	a° Angle	R1	R2	R3	d Shank Diameter	L Overall Length	Pattern Type
2 FLUTE									
AA54524	1-1/8"	9/32"	-	1-9/16"	-	-	1/2"	3-1/8"	Cove
AA54532	1-1/8"	19/32"	15°	-	-	-	1/2"	3-1/8"	Traditional
AA54520	1-3/16"	7/16"	-	7/8"	23/32"	-	1/2"	3-1/8"	Ogee
AA54528	1-3/16"	3/16"	-	7/8"	23/32"	1/8"	1/2"	3-1/8"	Ogee w/Bead

DOOR LIP ASSEMBLY (CORNER ROUND & TAPER RABBET) CARBIDE TIP BIT

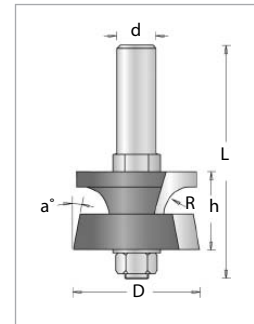
2 Flute, 1/2" Shank

- Application: Mill the edges of doors and drawer fronts with this assembly
- Round the show edge and simultaneously form a rabbet with a tapered shoulder on the back edge
- Works on straight stock from 5/8" to 1" thick
- Must be used in a table-mounted router

Packing & Sold In: Each



DIMENSIONS						
Item#	D Cutting Diameter	h Cutting Depth	R Radius	a° Angle	d Shank Diameter	L Overall Length
AA55300	1-9/16"	1"	3/8"	10°	1/2"	3"

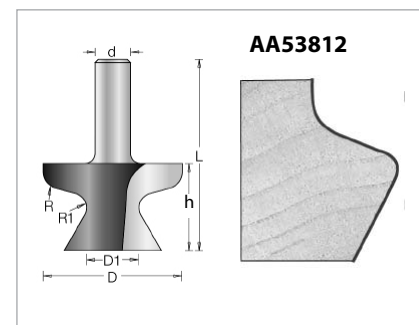
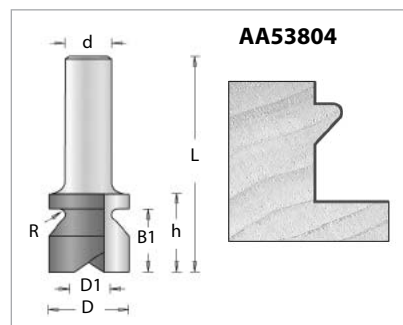
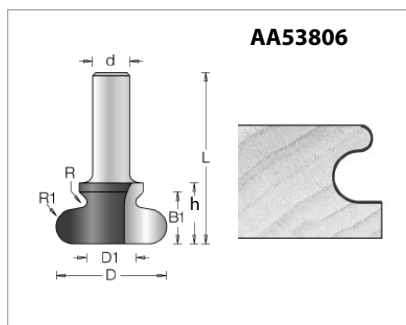


FINGER GRIP (DRAWER PULL, DOOR LIP) CARBIDE TIP BIT

2 Flute, 1/2" Shank

- Application: Produce clean modern chests and cabinets uninterrupted by hardware pulls and knobs by integrating the pulls into the doors, drawers and lids
- These one pass cutters offer many appearance and ergonomic options, providing positive grips and softened easy on the fingers edges
- All bits can be used in CNC and table-mounted routers

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)								
Item#	D Cutting Diameter	h Cutting Dimensions	D1	B1	R Radius	R1 Radius	d Shank Diameter	L Overall Length
AA53806	3/4"	3/4"	25/64"	9/16"	3/32"	3/16"	1/2"	2-5/16"
AA53804	7/8"	13/16"	1/2"	43/64"	1/16"	-	1/2"	2-5/16"
AA53812	2"	1-1/4"	3/4"	-	1/4"	3/16"	1/2"	2-3/4"

ROSETTE CUTTER SYSTEM

Carbide Tipped



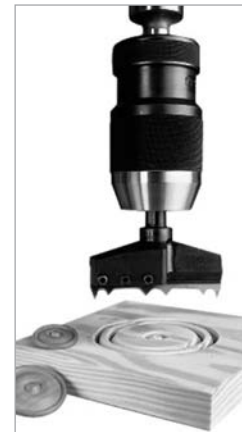
- The only Rosette Cutter featuring replaceable carbide tipped insert knives
- Fifteen different standard knife profiles are available along with three sizes of blank knives for custom grinding
- Optional shaper cutter head available to make matching moldings
- Precision balanced for high speed operation on a heavy-duty drill press, milling machine, lathe or shaper. All cutter bodies are manufactured using the highest quality tool steel
- The Rosette Cutter works well in softwoods, hardwoods, MDF and solid surface materials such as Corian®, Gibraltar®, Surell®, etc

NOTE: You must order two of each of the selected knife for proper operation.

Packing & Sold In: Each

Item#	Description
AA59004	Rosette Set Includes: 3-1/8" diameter Rosette Cutter, (1/2" shank) hex key & custom wood box. Knives sold separately
AA59010	Knife profile
AA59020	Knife profile
AA59050	Knife profile

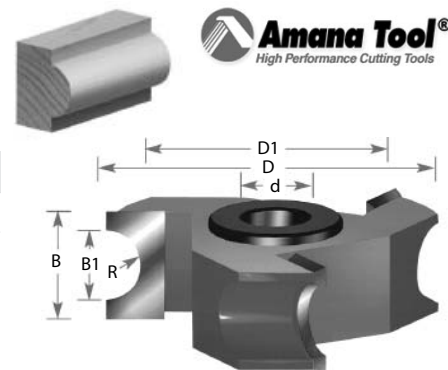
**NEW
ITEM!**



BULL NOSE CUTTER

Packing & Sold In: Each

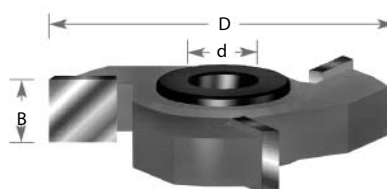
Item#	Description	DIMENSIONS					
		D	D1	B	B1	R	d
AA929	1" Bead	2-5/8"	1-5/8"	1-1/2"	1"	1/2"	1/2" & 3/4"



STRAIGHT EDGE CUTTER

Packing & Sold In: Each

Item#	DIMENSIONS		
	D	B	d
AA912	2-5/8"	3/4"	1/2" & 3/4"

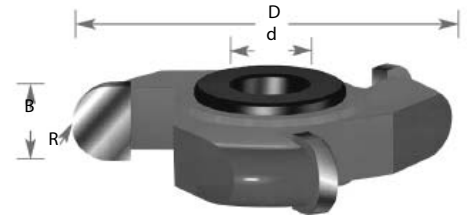
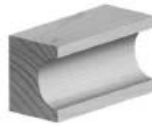


SECTION Y BITS & CUTTERS

SHAPER CUTTERS

FLUTE (CONVEX) CUTTER

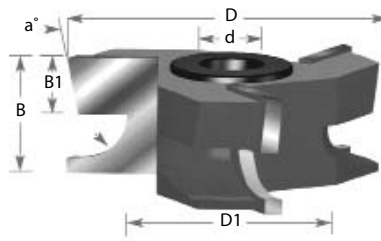
Packing & Sold In: Each



		DIMENSIONS			
Item#	Description	D	B	R	d
AA928	3/4" Flute	2-5/8"	3/4"	3/8"	1/2" & 3/4"

DOOR LIP

Packing & Sold In: Each

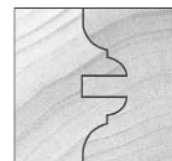
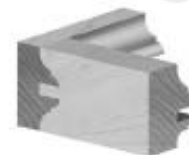
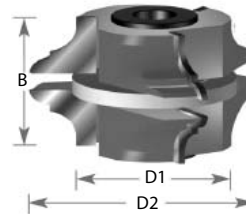
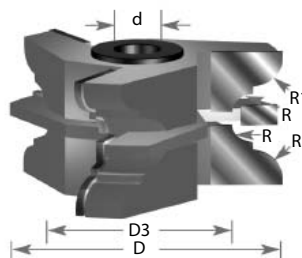


		DIMENSIONS						
Item#	Description	D	D1	B	B1	R	a°	d
AA900	Corner Round & Taper Rabbet (counter-clockwise, rabbet up)	2-5/8"	1-3/4"	1-3/16"	5/8"	3/8"	10°	1/2" & 3/4"

COVE & BEAD SET WITH 1/4" W X 17/32" D TONGUE GROOVE

For 1-3/4" material.

Packing & Sold In: Each



		DIMENSIONS						
Item#	D	D1	D2	D3	B	R	R1	d
AA922	3-1/8"	1-7/8"	2-5/16"	2-1/16"	1-3/4"	15/64"	11/32"	1/2" & 3/4"

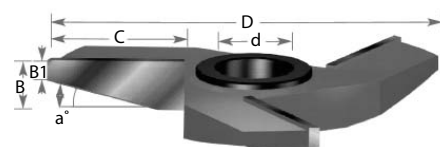
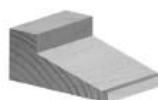
HORIZONTAL PANEL RAISING/SHEAR FACE

For 5/8" material.

Packing & Sold In: Each



Traditional



		DIMENSIONS					
Item#	OD	B	B1	R	C	a°	Od
AA984	5-1/2"	5/8"	5/16"	-	1-1/2"	15°	1" & 1-1/4"

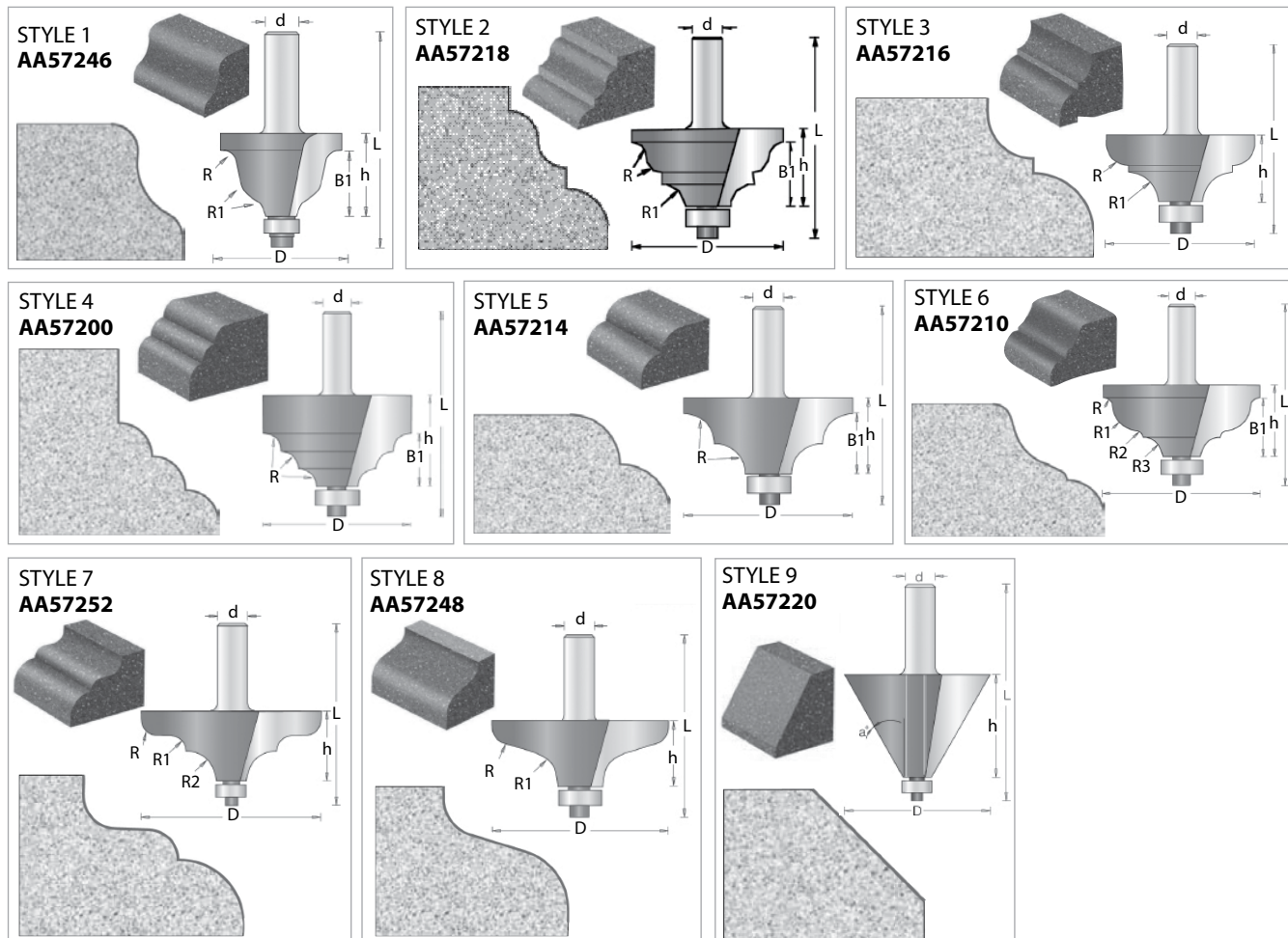
DECORATIVE EDGE CARBIDE TIP BIT W/BOTTOM MOUNT BALL BEARING GUIDE Ultra-Guide™ 2 Flute, 1/2" Shank



- Application: Wide variety of profile cutters designed specifically for edge treatment of solid-surface materials
- This series of cutters are scaled for thick or even built-up solid surface structures
- With most profiles, uncomfortably sharp edges are entirely eliminated and are replaced with soft curves
- All are large bits that must be run at reduced speed in a high-horsepower router, not for use with hand held routers

Packing & Sold In: Each

DIMENSIONS (SORTED BY CUTTING DIAMETER/RADIUS)											
Style	Item#	D Cutting Diameter	R Radius	R1 Radius	R2 Radius	R3 Radius	h Cutting Depth	B1	d Shank Diameter	L Overall Length	a° Angle
1	AA57246	1-3/4"	15/64"	33/64"	-	-	1-1/4"	1"	1/2"	3-1/4"	-
2	AA57218	2-1/2"	3/8"	1/4"	-	-	1-1/4"	1-1/16"	1/2"	3-3/16"	-
3	AA57216	2-1/2"	3/8"	1/2"	-	-	1-1/8"	-	1/2"	3-1/8"	-
4	AA57200	2-5/8"	5/16"	-	-	-	1-5/8"	15/16"	1/2"	3-1/2"	-
5	AA57214	2-3/4"	1/2"	-	-	-	1-1/4"	1"	1/2"	3-1/4"	-
6	AA57210	3"	3/16"	1/2"	1/8"	3/8"	1-9/16"	1-5/32"	1/2"	3-5/16"	-
7	AA57252	3"	1/4"	15/64"	1/2"	-	1-11/64"	-	1/2"	3-1/16"	-
8	AA57248	3"	5/16"	1/2"	-	-	1-1/8"	-	1/2"	3-1/8"	-
9	AA57220	2"	-	-	-	-	3/4"	-	1/2"	2-5/8"	45°



SECTION Y BITS & CUTTERS

EDGE TREATMENT SOLID SURFACE ROUTER BITS

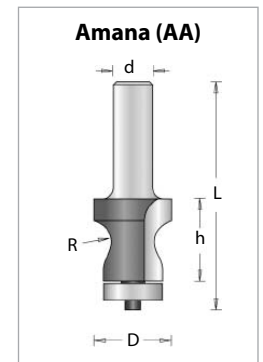
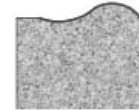
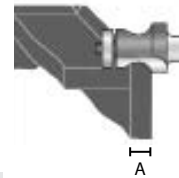
COUNTERTOP NO-DRIP CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/2" Shank

- Application: This bit will cut a 'no-drip' edge on kitchen and vanity counter tops in one pass
- Designed for use with a hand-held router

Packing & Sold In: Each

DIMENSIONS (SORTED BY CUTTING RADIUS)						
Item#	A Material Thickness	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
AA57118	1/2"	1"	7/8"	5/16"	1/2"	3"
AA57120	3/4"	1"	1-1/8"	5/16"	1/2"	3-1/4"

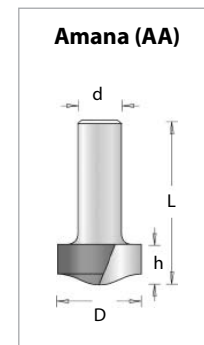


COUNTERTOP NO DRIP DESIGN CARBIDE TIP BIT 2 Flute, 1/4" & 1/2" Shank

- Application: This bit cuts the inner portion of a no-drip edge on kitchen and vanity countertops, where there's no edge for a guide bearing to reference
- Typically used with edge guide equipped router

Packing & Sold In: Each

DIMENSIONS					
Item#	A Material Thickness	D Cutting Diameter	h Cutting Dimensions	d Shank Diameter	L Overall Length
1/4" SHANK					
AA57146	3/4"	1"	1/2"	1/4"	1-1/2"
1/2" SHANK					
AA57148	3/4"	1"	1/2"	1/2"	2-1/8"



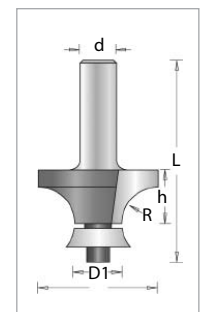
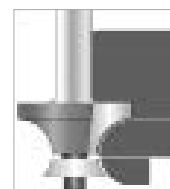
CORNER ROUNDING CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

Ultra-Glide™ Radius, 2 Flute, 1/2" Shank

- Application: Produce a true 180° bullnose in two passes
- Unlike a regular square-edge bearing, it follows the radiused surface produced on the first pass
- Ultra-Glide radius bearing is used in second pass and eliminates flat track typical of regular bearings
- Will neither leave a flat spot nor gouge the edge
- Use the (optional) regular 1/4" x 5/8" steel bearing (AA47712) for the first pass
- Designed for use in a table-mounted router only

Packing & Sold In: Each

DIMENSIONS						
Item#	D Cutting Diameter	h Cutting Depth	D1	R Radius	d Shank Diameter	L Overall Length
AA57192	2-1/8"	1"	5/8"	3/4"	1/2"	3"





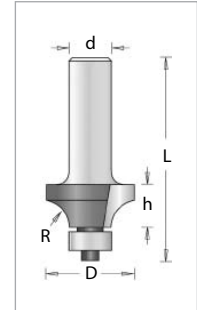
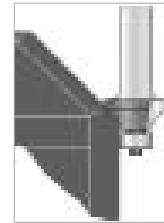
CORNER ROUNDING CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

Ultra-Glide™ 2 Flute, 1/4" & 1/2" Shank

- Application: Use this bit for rounding edges where there's access to a flat surface for the Ultra-Glide™ non-marring bearing to reference
- Used in concert with either Counter-top ('No-Drip') Design bit or corner-rounding bit with a radius bearing, this bit will produce a no-drip edge or a bullnose in two passes

Packing & Sold In: Each

DIMENSIONS (SORTED BY RADIUS)					
Item#	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
1/4" SHANK					
AA57150	1-1/8"	1/2"	5/16"	1/4"	1-7/8"
1/2" SHANK					
AA57147	3/4"	3/8"	1/8"	1/2"	2-5/16"
AA57149	1"	1/2"	1/4"	1/2"	2-7/16"
AA57152	1-1/8"	1/2"	5/16"	1/2"	2-1/4"
AA57139	1-1/2"	1/2"	1/2"	1/2"	2-3/8"
AA57141	2"	1/2"	3/4"	1/2"	2-3/8"



ROUND UNDER CARBIDE TIP BIT WITH TOP MOUNT BALL BEARING GUIDE

2 flute, 1/2" Shank

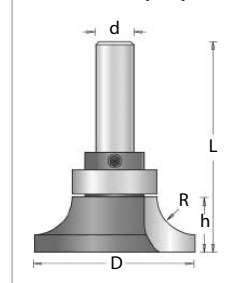
- Application: Round the lower edge of a counter with the router resting on the upper surface; no need to turn the heavy material over
- Especially useful for "job-site" work
- To cut a full 180° bullnose, use a corner rounding bit with a radius bearing

Packing & Sold In: Each



DIMENSIONS (SORTED BY CUTTING DIAMETER)						
Item#	A Material Thickness	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
AA57138	1"	2-1/8"	3/4"	1/2"	1/2"	2-7/8"
AA57140	1-1/2"	2-5/8"	1"	3/4"	1/2"	3"

Amana (AA)



SECTION Y BITS & CUTTERS

EDGE TREATMENT SOLID SURFACE ROUTER BITS

FACE-INLAY CARBIDE TIP BIT WITH 3 BALL BEARING GUIDES

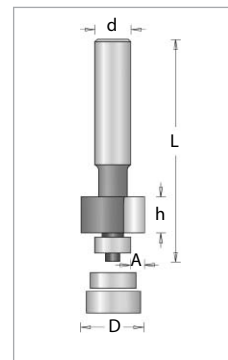
2 Flute, 1/2" Shank

- Application: With the router resting securely on the top surface, you can groove countertop edge for decorative wood veneer, plastics, brass, or other metal inlays
- Three ball bearings are provided with each tool to perform three different inlay depths, 1/16", 1/8" and 3/16"

Packing & Sold In: Each



Item#	DIMENSIONS				
	D Cutting Diameter	h Cutting Depth	A Inlay Depths	d Shank Diameter	L Overall Length
AA57100	7/8"	1/4"	1/16", 1/8", 3/16"	1/2"	3"
AA57106	7/8"	1/2"	1/16", 1/8", 3/16"	1/2"	3-1/2"
AA57112	7/8"	3/4"	1/16", 1/8", 3/16"	1/2"	3-1/2"



EDGE FACE COVE CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE ASSEMBLY

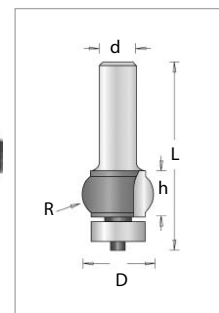
Ultra-Glide™, 2 Flute, 1/2" Shank

- Application: This bit cuts a large flute in the edge of a counter with the router resting on the top surface
- For use on solid surface material.

Packing & Sold In: Each



Item#	DIMENSIONS				
	D Cutting Diameter	h Cutting Depth	R Radius	d Shank Diameter	L Overall Length
AA57164	1"	5/8"	5/16"	1/2"	2-3/4"

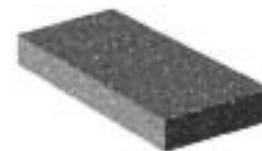


FLUSH TRIM CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

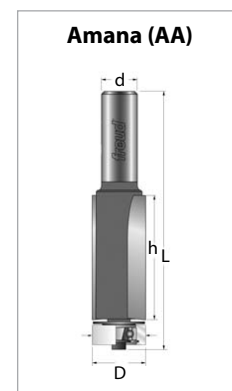
4 Flute, 1/2" Shank

- Application: Flush trimming of solid surface materials
- Features non-marring synthetic bearing to protect finished edges
- For a super smooth finish use 4 flute bits; feed rate is reduced, but chipping is virtually eliminated
- Designed for use in hand-held portable routers

Packing & Sold In: Each



Item#	DIMENSIONS (SORTED BY CUTTING DEPTH)			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
4 FLUTE				
AA57184	3/4"	1"	1/2"	3"
AA57186	3/4"	2"	1/2"	4-1/2"

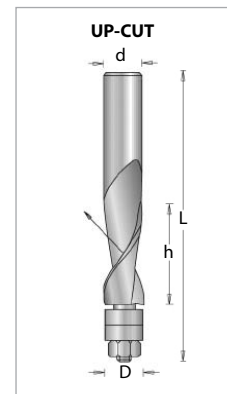
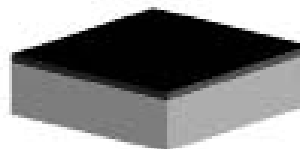


SPIRAL FLUSH TRIM SOLID CARBIDE BIT WITH DOUBLE BALL BEARING GUIDE

Ultratrim™ 2 Flute, 1/2" Shank

- Application: For the ultimate, chip-free finish in laminate, melamine, solid surface and fragile veneers
- Can be used for template work of all kinds
- The twin ball-bearing pilot enhances the stability of the tool
- Available in up-cut spiral

Packing & Sold In: Each



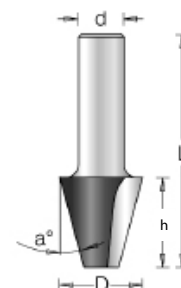
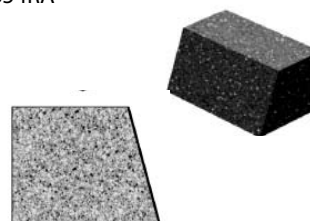
Item#	DIMENSIONS			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA46300	1/2"	1-1/4"	1/2"	3-3/4"

BEVEL TRIM CARBIDE TIP BIT

2 flute, 1/2" Shank

- Application: For sink cut-outs and to prepare countertop for top mount installation of sink or bowl
- Among others can be used for Corian® sink & bowl #'s 830A, 825RA, 852LA and 854RA

Packing & Sold In: Each



Item#	DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)				
	D Cutting Diameter	h Cutting Depth	a° Angle	d Shank Diameter	L Overall Length
AA57132	29/32"	15/16"	15°	1/2"	2-1/2"

SECTION Y BITS & CUTTERS

SOLID SURFACE ROUTER BITS

OGEE TRIM CARBIDE TIP BIT

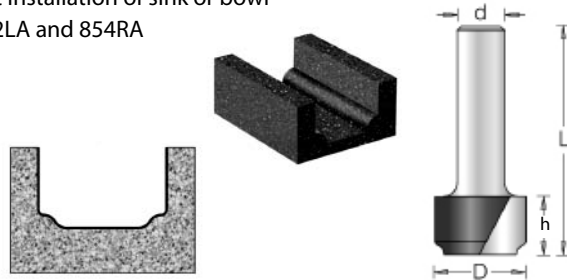
2 flute, 1/2" Shank

- Application: For sink cut-outs and to prepare countertop for top mount installation of sink or bowl
- Among others can be used for Corian® sink & bowl #'s 830A, 825RA, 852LA and 854RA

Packing & Sold In: Each



Item#	DIMENSIONS (SORTED BY CUTTING DIAMETER/DEPTH)			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA57134	31/32"	5/8"	1/2"	2-3/8"



COVE/BACKSPLASH CARBIDE TIP BIT WITH TOP MOUNT BALL BEARING GUIDE ASSEMBLY

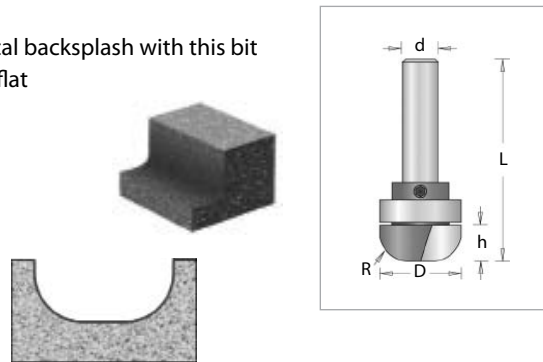
Ultra-Glide™, 2 Flute, 1/2" Shank

- Application: Radius the transition from horizontal counter top surface to vertical backsplash with this bit
- The cutting profile is a modified cove, having rounded corners separated by a flat
- A shank mounted Ultra-Glide bearing guides the cut
- Designed to use in a handheld router

Packing & Sold In: Each



Item#	DIMENSIONS				
	D Cutting Diameter	h Cutting Dimensions	R Radius	d Shank Diameter	L Overall Length
AA57232	1-1/8"	1/2"	3/8"	1/2"	2-7/8"



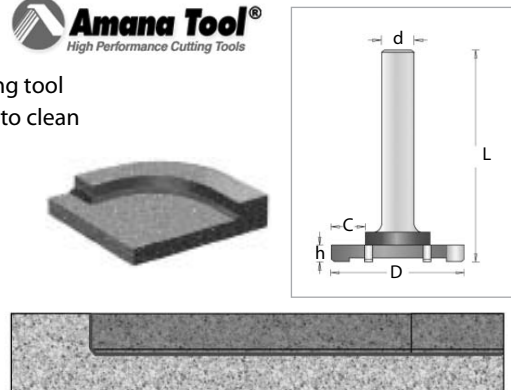
COUNTERTOP TRIM CARBIDE TIP BIT

6-Wing, 1/2" Shank

- Application: Create extra smooth shallow recesses in countertops with this 6 wing tool
- The radiused cutting tips produce an edge that's easy on the fingers and simple to clean
- Designed to use in a handheld router

Packing & Sold In: Each

Item#	DIMENSIONS				
	D Cutting Diameter	h Cutting Depth	C Cutting Length	d Shank Diameter	L Overall Length
AA57136	2-1/16"	1/4"	1/2"	1/2"	3-5/16"



UNDERMOUNT BOWL CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE ASSEMBLY



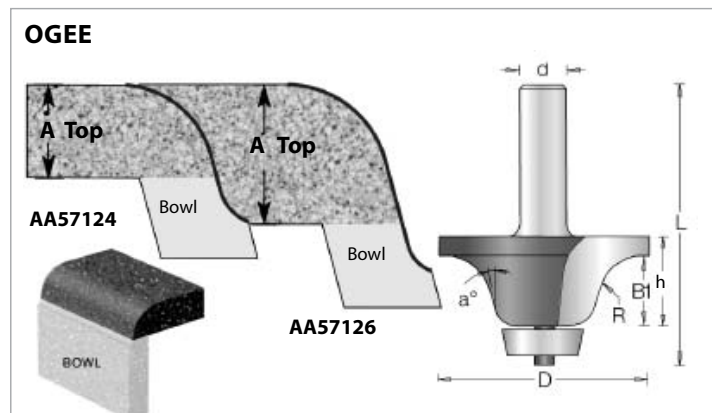
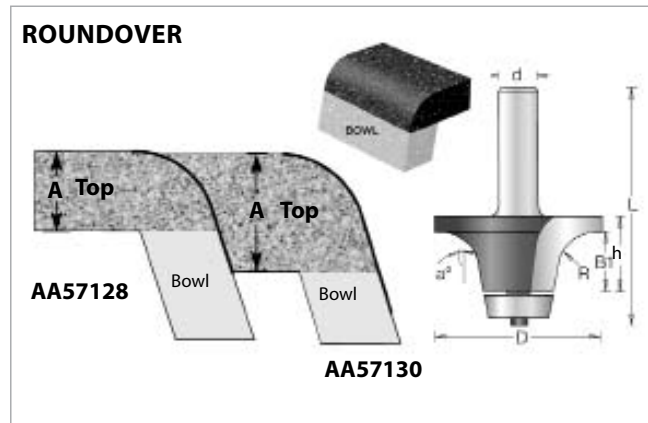
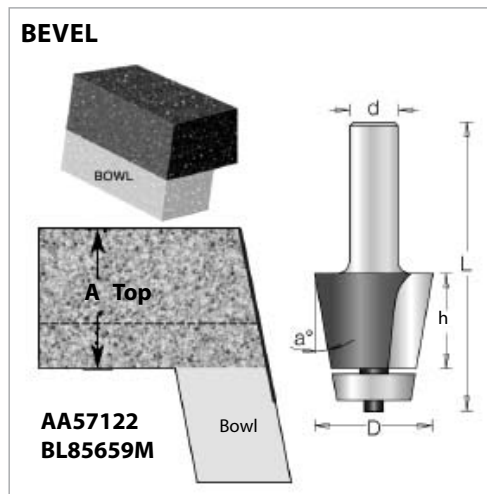
BOSCH

2 Flute, 1/2" Shank

- Application: These bits prepare and/or finish countertop edges in conjunction with undermount bowl installations
- The Roundover and Ogee bits trim and profile the countertop edges after the bowl is mounted
- The bevel bit trims the sink cut-out flush with an installed undermount bowl; it can also be used with a template to prepare a sink cut-out for a bevel mount bowl
- NOTE: All these tools can be used for undermount applications of Corian® sink and bowl #'s 802S, 804S, 805S, 8029S, and 871S.
The bevel tool can be used in bevel mount applications of Corian® sink and bowl #'s 804A, 805A, 830A, 825LA, 825RA, and 854RA

Packing & Sold In: Each

DIMENSIONS (SORTED BY APPLICATION)									
Item#	A Material Thickness	D Cutting Diameter	h Cutting Depth	a° Angle	R Radius	B1	d Shank Diameter	L Overall Length	Application
AA57122	1/2" & 3/4"	1-1/4"	15/16"	10°	-	-	1/2"	3"	Bevel
BL85659M	1/2" & 3/4"	1-1/4"	15/16"	10°	-	-	1/2"	3"	Bevel
AA57124	1/2"	2-1/8"	1"	15°	1/2"	3/4"	1/2"	3"	Ogee
AA57126	3/4"	2-1/4"	1-1/4"	15°	9/16"	1"	1/2"	3-1/4"	Ogee
AA57128	1/2"	2-1/8"	1"	18°	1/2"	3/4"	1/2"	3"	Roundover
AA57130	3/4"	2-1/4"	1-1/4"	18°	9/16"	1"	1/2"	3-1/4"	Roundover



SECTION Y BITS & CUTTERS

BOWL & SINK SOLID SURFACE ROUTER BITS

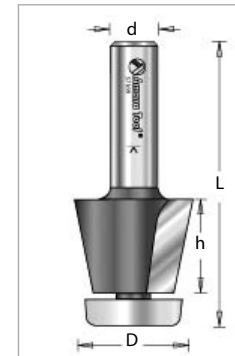
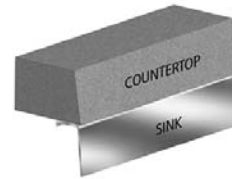
LANSEN™ STAINLESS STEEL EDGE SINK CARBIDE TIP BIT W/BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/2" Shank

- Application: Designed specifically for use with Lansen™ stainless steel Edge Sinks™
- For laminate and 1/2" solid surface materials
- Use to trim the counter-top edge after the bowl is mounted

Packing & Sold In: Each

Item#	DIMENSIONS			
	D Cutting Diameter	h Cutting Depth	d Shank Diameter	L Overall Length
AA57169	1-3/16"	1"	1/2"	3-1/8"
AA49409	7/8"	3/4"	1/4"	2-1/4"



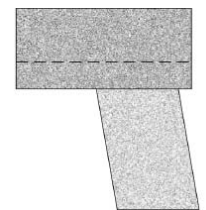
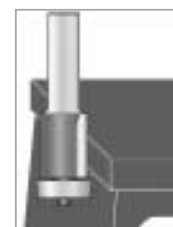
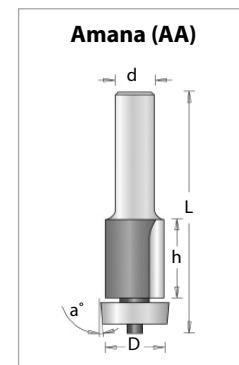
BOWL & SINK TRIM CARBIDE TIP BIT WITH BOTTOM MOUNT BALL BEARING GUIDE

2 Flute, 1/2" Shank

- Application: Trim a sink cutout flush with the bowl in stages using these "over-hang" and flush trim bits in tandem
- The overhang bits are equipped with non-marring bearings that are tapered to match the slope of the bowl's side
- A first pass with the appropriate overhang bit cleans the cutout edge, leaving a very slight overhang at the underside
- A pass with the flush trim bit completes the operation

Packing & Sold In: Each

Item#	DIMENSIONS					
	D Cutting Diameter	h Cutting Depth	a°	d Shank Diameter	L Overall Length	Description
AA57153	3/4"	1"	10°	1/2"	3-1/4"	1/16" Overhang
AA57155	49/64"	1-1/2"	5°	1/2"	3-1/2"	1/8" Overhang
AA57154	3/4"	1"	0°	1/2"	3-1/2"	Flush Trim



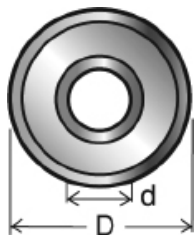
STEEL BALL BEARING REPLACEMENT GLIDES



BOSCH

- For repairing and altering the profile of router bits
- Stocked in Amana, Bosch and Freud but will fit most brands of router bits

Packing & Sold In: Each



		DIMENSIONS	
Amana Item#	Bosch Item#	d Inside Dia.	D Outside Dia.
STANDARD MEASUREMENT BEARINGS			
AA47723	BL3-600-900-507	1/8"	1/4"
AA47704	-	1/8"	3/8"
AA47702	-	1/8"	3/8"
AA47706	-	3/16"	1/2"
AA47701	-	1/4"	1/2"
AA47712	-	1/4"	5/8"
AA47714	-	1/4"	3/4"
AA47708	-	5/16"	7/8"
AA47721	-	1/2"	3/4"
METRIC MEASUREMENT BEARINGS			
AA47711	-	6mm	19mm
AA47716	-	8mm	16mm
AA47754	-	15mm	1"

REPLACEMENT ULTRA-GLIDE™ BALL BEARINGS



- Ultra-Glide™ bearings feature satin-smooth Delrin® sleeves
- Delrin® is an industrial synthetic plastic material similar to nylon, and will leave no marks on the material being cut
- Applications include solid surface materials, clear acrylics, and plastic laminates
- Not recommended for regular wood applications due to a higher wear factor

NOTE: AA47731 is for use with AA57156 through AA57168 bowl bits only.

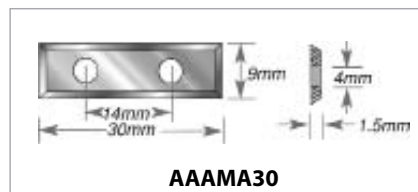
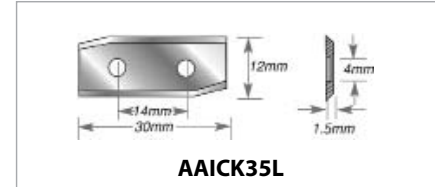
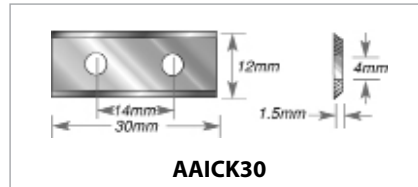
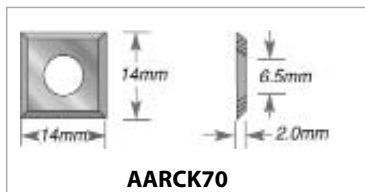
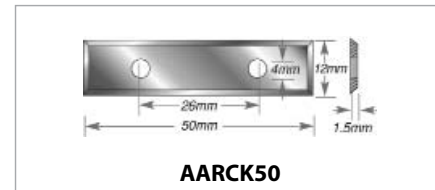
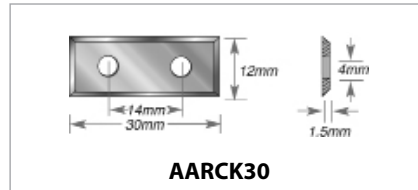
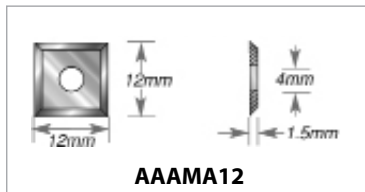
Packing & Sold In: Each

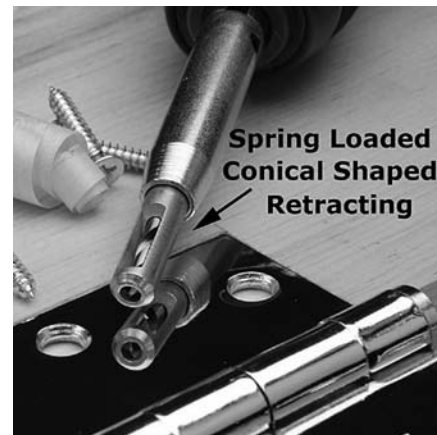
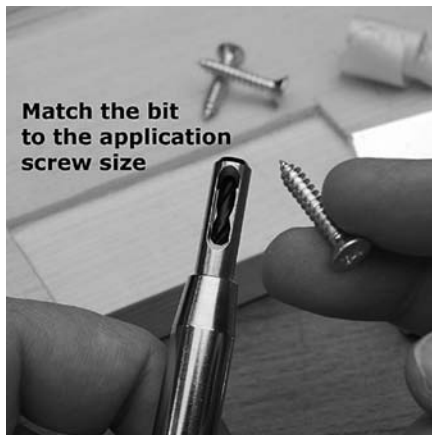
Item #	DIMENSIONS		
	d Inside Dia.	D Outside Dia.	Taper
AA47707	3/16"	.500 (1/2")	-
AA47709	1/4"	.750 (3/4")	-
AA47726	1/4"	.866 (7/8")	10° Taper
AA47731	1/4"	.866 (7/8")	10° Taper
AA47725	1/4"	.965 (31/32")	10° Taper
AA47728	5/16"	1.137 (1-9/64)	-
AA47727	5/16"	1.382 (1-3/8")	-
AA47768	1/4"	3/4"	-

REPLACEMENT CUTTER KNIVES



Packing & Sold In: Each





SELF-CENTERING VIX BITS

High Speed Steel Drill Bit

- Self centering design ensures the hole will be drilled absolutely in the center
- Hex shank bit is spring loaded with a retracting conical shaped guide
- Adjustable drill depth
- Guide body is made of nickel plated steel
- Drill bit is made of high speed steel that will stay sharper ten times longer than high carbon steel bits

Packing: As shown below.

Sold In: Both broken and full box quantities. Discount available on full box orders.

**NEW
ITEM!**

Item#	Bit Size	Fits Screw Sizes	Box Qty
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SELF-CENTERING VIX BITS, 1/4" ROUND SHANK

VB3	5/64"	#2 & #3	10
VB5	7/64"	#5 & #6	10
VB9	9/64"	#8, #9 & #10	10
VB12	11/64"	#12	10
VB16	1/4"	-	10
VB13	5mm	-	10

SELF-CENTERING VIX BITS, 1/4" HEX SHANK

VB5H	7/64"	#5 & #6	10
VB9H	9/64"	#8, #9 & #10	10

Item#	Replacement For	Box Qty
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REPLACEMENT BITS

VB3B	For VB3 - 5/64"	10
VB5B	For VB5, 5H - 7/64"	12
VB9B	For VB9, 9H - 9/64"	12
VB12B	For VB12 - 11/64"	12
VB13B	For VB13	12
VB16B	For VB16	12

REPLACEMENT SPRINGS

VB5S	For VB3, 5, and 5H	12
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SECTION Y BITS & CUTTERS

BORING & DRILLING - HIGH SPEED DRILL ROUTER BITS

HIGH SPEED STEEL DRILL BITS - JOBBER LENGTH

IRWIN.

Straight Shank, Fractional Sizes

- 118° standard point, bright finish
- Constructed of M-2 high speed steel for the best combination of strength, heat and wear resistance
- Straight shank fractional sizes
- For general use in metal, wood or plastic

Packing & Sold In: Each



Item#	Size	Twist Length	Overall Length	Item#	Size	Twist Length	Overall Length
AT60104	1/16"	7/8"	1-7/8"	AT60113	13/64"	1-3/16"	2-1/4"
AT60105	5/64"	11/16"	1-11/16"	AT60115	15/64"	1-5/16"	2-7/16"
AT60106	3/32"	3/4"	1-3/4"	AT60116	1/4"	1-3/8"	2-1/2"
AT60107	7/64"	13/16"	1-13/16"	AT60117	17/64"	1-7/16"	2-5/8"
AT60108	1/8"	7/8"	1-7/8"	AT60118	9/32"	1-1/2"	2-11/16"
AT60109	9/64"	15/16"	1-15/16"	AT60120	5/16"	1-5/8"	2-13/16"
AT60110	5/32"	1"	2-1/16"	AT60124	3/8"	1-13/64"	3-1/8"
AT60111	11/64"	1-1/16"	1-1/8"	AT60132	1/2"	2-1/4"	3-3/4"
AT60112	3/16"	1-1/8"	2-3/16"				

HIGH SPEED STEEL DRILL BITS - JOBBER LENGTH

High Performance - 3 Sided Flat Shank, Fractional Sizes

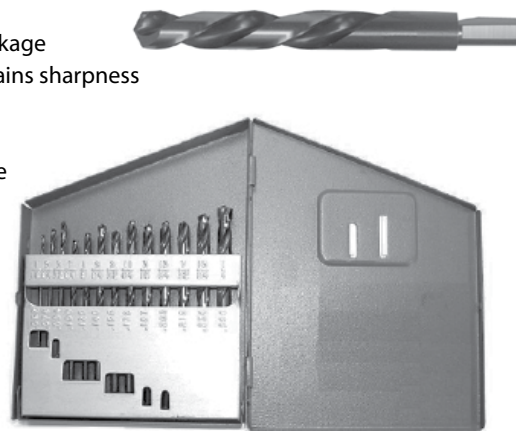
WÜRTH

- Wider web than standard bits allows excellent heat dissipation and less bit breakage
- Constructed of M-7 Industrial speed steel withstands high temperatures, maintains sharpness
- Can be used with either wood or steel
- 135° split point for fast penetration and accurate starting without center punch
- Precision ground point flutes, body clearance, and drill diameter for the ultimate in accuracy and performance
- Black and bronze oxide surface treatments reduce friction
- 3-flat shank design (on 3/16" and larger bits) eliminates slippage and provides a positive grip
- Drill set includes 13 drills: 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 15/64", and 1/4" bits

Packing: As shown below.

Sold In: Full box quantities only.

13 Piece
Drill Bit Set



Item#	Size	Flute Length	Overall Length	Box Qty	Item#	Size	Flute Length	Overall Length	Box Qty
WW16270116	1/16"	7/8"	1-7/8"	12	WW162701964	19/64"	2-3/8"	3-7/8"	6
WW16270564	5/64"	1"	2"	12	WW16270516	5/16"	2-1/2"	4"	6
WW16270332	3/32"	1-1/4"	2-1/4"	12	WW162702164	21/64"	2-9/16"	4-1/16"	6
WW16270764	7/64"	1-5/16"	2-3/8"	12	WW162701132	11/32"	2-5/8"	4-1/8"	12
WW1627018	1/8"	1-7/16"	2-1/2"	12	WW162702364	23/64"	2-11/16"	4-3/16"	6
WW16270964	9/64"	1-9/16"	2-5/8"	12	WW1627038	3/8"	2-11/16"	4-1/4"	6
WW16270532	5/32"	1-11/16"	2-3/4"	12	WW162702564	25/64"	2-3/4"	4-5/16"	6
WW162701164	11/64"	1-13/16"	2-7/8"	12	WW162701332	13/32"	2-13/16"	4-3/8"	6
WW16270316	3/16"	1-1/2"	3"	12	WW162702764*	27/64"	2-7/8"	4-7/16"	6
WW162701364	13/64"	1-5/8"	3-1/8"	12	WW16270716*	7/16"	2-15/16"	4-1/2"	6
WW16270732	7/32"	1-3/4"	3-1/4"	12	WW162702964*	29/64"	3"	4-5/8"	6
WW162701564	15/64"	1-7/8"	3-3/8"	12	WW162701532*	15/32"	3-1/8"	4-3/4"	6
WW1627014	1/4"	2"	3-1/2"	12	WW162703164*	31/64"	3-1/4"	4-7/8"	6
WW162701764	17/64"	2-1/8"	3-5/8"	12	WW1627012*	1/2"	3-3/8"	5"	6
WW16270932	9/32"	2-1/4"	3-3/4"	12	WW1627013	13 Piece Drill Bit Set			

BORING & DRILLING - HIGH SPEED DRILL ROUTER BITS

SECTION Y BITS & CUTTERS

HIGH SPEED STEEL DRILL BITS

High Performance 2-Sided Flat Shank

- Irwin Turbo Max drills have a jet-point tip that stays sharp longer and drills up to 28% faster than other leading bits
- Ground with super abrasive Cubic Boron Nitride to eliminate grinding burn
- Generates less heat at the cutting edges which contributes to longer bit life
- Bit size is also shank size
- Three flatted shank on 3/16" and above for better chuck grip
- High speed steel: Features a black body and gold flute
- Self-centering tip for clean, fast starts

Packing & Sold In: Each

IRWIN.



Item#	Size	Flute Length	Overall Length
AT73108	1/8"	1-5/8"	2-3/4"
AT73109	9/64"	1-3/4"	2-7/8"
AT73111	11/64"	2-1/8"	3-1/4"
AT73112	3/16"	2-5/16"	3-1/2"
AT73114	7/32"	2-1/2"	3-3/4"
AT73116	1/4"	2-3/4"	4"

HIGH SPEED STEEL DRILL BITS - EXTENDED LENGTH

Hex Shank

- 135° split points, jobbers length.
- Use in Insty-Bit quick-change chuck, Insty-Driver adapters, cordless and standard drills and screwdrivers
- 7 pc. set includes 1/16"-1/4", increments of 1/32"
- Maximum rpm: 2500

Packing & Sold In: Each

INSTY-BIT



Item#	Drill Size	Overall Length	Item#	Drill Size	Overall Length
IB81106	3/32"	3"	IB81112	3/16"	4-5/16"
IB81107	7/64"	3-7/16"	IB81114	7/32"	4-1/2"
IB81108	1/8"	3-1/2"	IB81116	1/4"	4-13/16"
IB81109	9/64"	3-11/16"	IB81101	7 pc. set: 1/16" through 1/4" x 32nds	
IB81011	11/64"	3-7/16"			

HIGH SPEED DRILL BIT SET - FRACTIONAL SIZES

13 Piece Set - Straight Shank

Packing & Sold In: Each

Item#	Description
AT60136	13-piece set in metal index case includes drill bit sizes 1/16" through 1/4" in 1/64" increments



IRWIN.

13 Piece Set

HIGH SPEED DRILL BIT SET - FRACTIONAL SIZES

5 Piece Set - Hex Shank

- 1/4" hex shank
- Includes: 3/32", 7/64", 1/8", 9/64" and 5/32"
- Carded, no case included

Packing & Sold In: Each

**NEW
ITEM!**

Item#
BL13135



BOSCH

SECTION Y BITS & CUTTERS

BORING & DRILLING ROUTER BITS

METRIC DRILL BITS

Straight Shank

- High speed steel
- Cylindrical shank, right hand cut
- For use in CNC machines, upright drills, and battery operated drills

Packing: As shown below.

Sold In: Full box quantities only.



Item#	Size	Flute Length	Overall Length	Box Qty
WW62550	5mm	2-3/64"	3-3/8"	10
WW62570	7mm	2-23/32"	4-19/64"	10
WW62580	8mm	2-61/64"	4-39/64"	10
WW625100	10mm	3-27/64"	5-15/64"	5

METRIC DRILL BITS

Straight Shank

- Made from high speed regular cut steel
- Cuts wood, plastics and metals

Packing: 5 per box.

Sold In: Both broken and full box quantities.

Discount available for full box orders.



Fuller

Item#	Size	Flute Length	Overall Length
DP18100196	5mm	2-1/16"	3-3/8"
DP18100236	6mm	2-1/16"	3-3/8"
DP18100315	8mm	2-15/16"	4-19/32"
DP18100393	10mm	3-7/16"	5-1/4"

DRILL ADAPTERS WITH TAPER POINT DRILL BITS

High Speed Drill Bits

- High speed steel drill bits with 1/4" hex shank drill adapter
- For use with any quick-change chuck, cordless and standard drills and screw guns
- Replacement drill bits listed below

Packing: As shown below.

Sold In: Both broken and full box quantities. Discount available on full box orders.



Item#	Drill Bit Size	Diameter	Overall Length	Box Qty
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DRILL ADAPTERS WITH TAPER POINT DRILL BITS

AA608266	3.2mm	1/8"	3-3/8"	5
AA608268	3.6mm	9/64"	3-7/16"	5
AA608272	4.4mm	11/64"	4"	5

REPLACEMENT DRILL BITS

AA630266	3.2mm	1/8"	3-3/8"	10
AA630268	3.6mm	9/64"	3-7/16"	10
AA630272	4.4mm	11/64"	4"	10

TAPER POINT DRILL BITS

Straight & Hex Shank

- Made from high speed steel
- Hex shank and straight shanks available
- Maximum RPM: 2500

Packing: 5 per box.

Sold In: Both broken and full box quantities.

Discount available for full box orders.

Fuller

Item#	Drill Size	Screw Size	Flute Length	Overall Length
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STRAIGHT SHANK

DP20100125	1/8"	#5	1-5/8"	2-3/4"
DP20100140	9/64"	#6	1-3/4"	2-7/8"
DP20100171	11/64"	#8	2-1/8"	3-1/4"
DP20100203	13/64"	#10	2-7/16"	3-5/8"

HEX SHANK

DP20140125	1/8"	#5	1-5/8"	3-1/2"
DP20140140	9/64"	#6	1-3/4"	3-5/8"
DP20140171	11/64"	#8	2-1/8"	4"
DP20140203	13/64"	#10	2-7/16"	4-3/8"



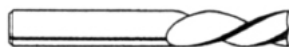
Straight Shank



Hex Shank

POCKET HOLE MACHINERY BITS

Packing & Sold In: Each



**NEW
ITEM!**

Item#	Description
CECDB764	7/64" Drill Bit
CECDB964	9/64" Drill Bit

MORTISING CHISELS & BIT



Packing & Sold In: Each



1/4" HEX SHANK WITH CHANGE ADAPTER

Item#	OD	B	Od	L
AA609110	5/16"	1-3/4"	3/4"	8-1/4"
AA609130	1/2"	2-7/8"	3/4"	8-1/4"

SPADE BITS Straight Shank



- 1/4" straight shank
- Precision ground and hardened steel spade bits for general purpose drilling of hard and soft woods and wood by-products

Packing & Sold In: Each

Item#	Diameter	Item#	Diameter
AA604200	3/8"	AA604400	3/4"
AA604250	1/2"	AA604500	7/8"
AA604270	5/8"	AA604600	1"

SPADE BITS Bosch DareDevil™, Hex Shank, 50%

- Full cone thread tip provides the speed needed to drill faster- 2.4 X faster
- Pulls bit through the material with less vibration less force required
- Hex shank with power groove reduces slippage
- Spur and reamer makes cleaner holes
- Contoured paddle has faster chip removal

Packing & Sold In: Each



BOSCH



Item#	Diameter	Overall Length	Item#	Diameter	Overall Length
BLDSB1001	1/4"	6"	BLDSB1009	3/4"	6"
BLDSB1002	5/16"	6"	BLDSB1011	7/8"	6"
BLDSB1005	1/2"	6"	BLDSB1012	15/16"	6"
BLDSB1006	9/16"	6"	BLDSB1015	1-1/8"	6"
BLDSB1007	5/8"	6"	BLDSB1017	1-1/4"	6"
BLDSB1008	11/16"	6"	BLDSB1021	1-1/2"	6"

SECTION Y BITS & CUTTERS

HOLE SAWS ROUTER BITS

BI-METAL HOLE SAW

Standard Grade

- Precision sharpened teeth for smooth, fast cuts, lasts up to 5 times longer than carbon steel
- Cuts clean holes in wood, plastic, metal, gypsum boards
- Lasts up to 5 times longer than carbon steel hole saws
- 1" and 1-1/8" diameter hole saws have a cutting depth of 2", all other hole saws have a cutting depth of 1-3/4"
- All hole saws use mandrel (#AA602332)

Packing & Sold In: Each

Item#	Cutting Diameter	Item#	Cutting Diameter
AA602112	1" (25 mm)	AA602160	2-7/8" (73 mm)
AA602116	1-1/8" (29 mm)	AA602162	3" (76 mm)
AA602128	1-1/2" (38 mm)	AA602164	3-1/8" (79 mm)
AA602136	1-3/4" (44 mm)	AA602166	3-1/4" (83 mm)
AA602138	1-7/8" (48 mm)	AA602170	3-1/2" (89 mm)
AA602140	2" (51 mm)	AA602174	3-3/4" (95 mm)
AA602144	2-1/8" (54mm)	AA602178	4" (102 mm)
AA602148	2-5/16" (59 mm)	AA602180	4-1/8" (105 mm)
AA602150	2-3/8" (60 mm)	AA602186	5" (127 mm)
AA602152	2-1/2" (64 mm)	AA602188	6" (152 mm)



BI-METAL HOLE SAW MANDRELS

Item#	Shank Size	Fits Hole Saw Size	Chuck Size
AA602332	7/16" Hex	1-1/4" - 6"	1/2"
AA602336	7/16" Hex	9/16" - 1-3/16"	1/2"

AA602200 Replacement Pilot Drill, 1/4" x 4"



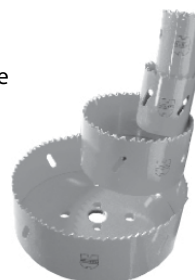
BI-METAL HOLE SAW

Premium Grade

- Bi-metal construction allows a fast and clean cut
- Suitable for materials including: wood, steel, plastic, aluminum, copper, and bronze
- Diametrical Pitch: 6" (152mm)
- Depth of Cut: 1-1/4" (32mm)
- All hole saws work with mandrel (# WW63204)

NOTE: Mandrel, ejector spring, and extension are sold separately

Packing & Sold In: Each



Hole Saw Kit

INDIVIDUAL HOLE SAWS

Item#	Cutting Diameter	Item#	Cutting Diameter
WW63219	3/4" (19mm)	WW63264	2- 1/2" (64mm)
WW63222	7/8" (22mm)	WW63267	2-5/8" (67mm)
WW63225	1" (25mm)	WW63270	2-3/4" (70mm)
WW63232	1- 1/4" (32mm)	WW63273	2- 7/8" (73mm)
WW63235	1-3/8" (35mm)	WW63276	3" (76mm)
WW63238	1- 1/2" (38mm)	WW63279	3- 1/8" (79mm)
WW63241	1-5/8" (41mm)	WW63283	3- 1/4" (83mm)
WW63244	1- 3/4" (44mm)	WW63286	3-3/8" (86mm)
WW63248	1- 7/8" (48mm)	WW63289	3- 1/2" (89mm)
WW63251	2" (51mm)	WW63295	3- 3/4" (95mm)
WW63254	2- 1/8" (54mm)	WW632102	4" (102mm)
WW63257	2-1/4" (57mm)	WW632114	4- 1/2" (114)
WW63260	2- 3/8" (60mm)		

HOLE SAW KIT

WW964632 Kit includes: 3/4", 7/8", 1", 1-1/4", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2", 2-5/8", 3" and mandrel

REPLACEMENT BITS

WW632014	Repl. Bit for WW63202 Mandrel
WW6320141	Repl. Bit for WW63204 Mandrel

ACCESSORIES

WW63207	Ejector spring for holesaws
WW63205	12" Extension for use with WW63202
WW63202	Mandrel: Built-in locking mechanism for extra torque strength
WW63204	Mandrel: Screw in arbor

BORING & DRILLING ROUTER BITS

SECTION Y BITS & CUTTERS

HEX SHANK COUNTER SINK

INSTY-BIT™

- Hardened and tempered steel tool
- Single flute design countersinks the mouth of the existing hole in wood and metal
- Produces clean 82 degree countersinks up to 1/2" diameter
- Maximum rpm: 2500

Packing & Sold In: Each



Item#

IB82302

COUNTER SINKS

IRWIN.

- High speed steel countersinks are milled and precision ground to 82 degrees for countersinking into most machineable materials

Packing & Sold In: Each

Item#	Diameter	Shank Size
AT12411	1/2"	1/4"
AT12412	5/8"	1/4"



COUNTER SINK SET

4 Piece Set

- Screws pilot provide fast countersinking and counter boring in one operation
- Drill bit is replaceable
- Hex shank countersinks fit all corded and cordless screwdrivers, drills and screw guns
- Includes: #6, #8, #10 and #12 countersinks and allen wrench
- Carded, no case included

Packing & Sold In: Each.

Item#

BL16515

**NEW
ITEM!**



BOSCH

COUNTER SINK & DRILL BITS

INSTY-BIT™

- These countersinks insure precision drilling of holes for woodscrews in wood and composition board
- One piece tool with drill bit and hardened steel countersink attached
- Steel twist drill is adjustable (up and down) to match screw length
- Maximum RPM is 2500
- Has 1/4" hex power bit shaft
- Five piece set (#IB82701) contains 1/8" hex wrench and five countersink bits

Packing & Sold In: Each



Item#	Drill Size	Screw Size
IB82701	5pc. Set: 5/64"-9/64"	-
IB82706	3/32"	#6
IB82707	7/64"	#8
IB82708	1/8"	#10
IB82709	9/64"	#12

COUNTER SINK - ECONOMY #8

BOSCH

- Countersinks and bores in one step
- Replacement drill bit

Packing & Sold In: Each.

Item#

BL16608

**NEW
ITEM!**



SECTION Y

BITS & CUTTERS

COUNTERSINKS/STOP COLLARS

- Countersinks and counterbores flat head screw heads in woods, plastics and non-ferrous materials
- Stop collars are used to control depth of countersink
- Countersinks and stop collars are held into place with two hex socket screws and are easily adjustable up and down the drill bit
- Designed for use with portable drills

Packing & Sold In: Each

COUNTERSINKS				STOP COLLARS		
Item#	Drill Diameter	Screw Size	Counter Bore Hole Size	Item#	Inside Diameter	Width
DPC5	1/8"	#5	3/8"	DP11900375	3/8"	1/4"
DPC6	9/64"	#6	3/8"	DP11900500	1/2"	1/4"
DPC8	11/64"	#8	3/8"			
DPC1211	11/64"	#8	1/2"			
DPC913	13/64"	#10	3/8"			
DPC102	13/64"	#10	1/2"			

Fuller



Countersinks



Stop Collars

DRILL STOPS

- Steel, held with 2 set screws

Packing: 5 per box.

Sold In: Both broken and full box quantities. Discount available for full box orders.

Item#	Diameter x Overall Length	Drill Size
DP10600125	3/8" x 1/2"	1/8"
DP10600171	7/16" x 1/2"	11/64"
DP10600196	1/2" x 1/2"	12/64"
DP10600203	1/2" x 1/2"	13/64"
DP10600315	3/4" x 3/4"	21/64"

Fuller



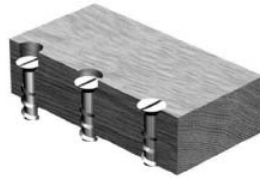
BORING & DRILLING ROUTER BITS

SECTION Y BITS & CUTTERS

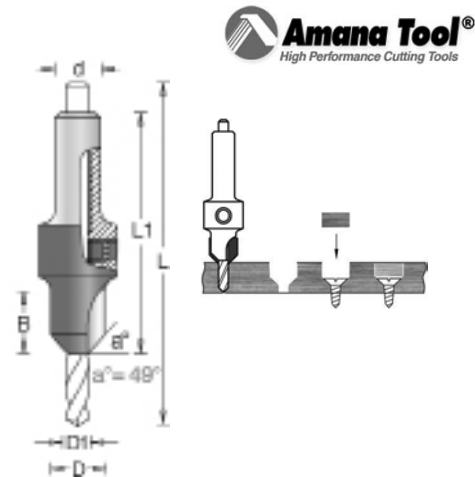
WOOD SCREW DRILL/COUNTERSINK

- Carbide tip bit countersink for #6, #8 and #10 size wood screw

Packing & Sold In: Each



Item#	Wood Screw Size	DIMENSIONS					
		D	D1	B	d	L1	L
AA55202	#6	3/8"	1/8"	1/2"	5/16"	1-5/8"	2-9/16"
AA55204	#6	25/64"	9/64"	1/2"	5/16"	1-5/8"	2-3/4"
AA55208	#8	7/16"	11/64"	1/2"	5/16"	1-5/8"	3"
AA55210	#10	7/16"	3/16"	1/2"	3/8"	1-3/4"	3"

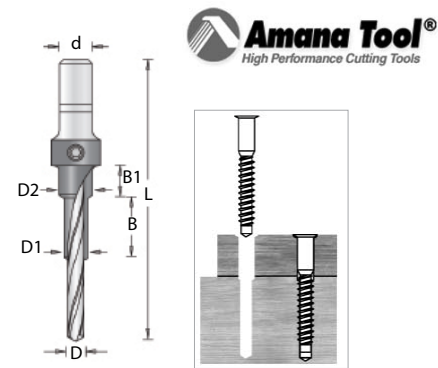


RTA FURNITURE DRILL/ COUNTERSINK

- Commonly used for RTA (ready-to-assemble) furniture fittings
- High speed steel countersink with polished slow spiral drill bit
- Will perform 3 tasks in one: pilot hole, clearance hole and countersink

Packing & Sold In: Each

Item#	DIMENSIONS						
	D	D1	D2	B	B1	d	L
AA55102	3.5mm	5.0mm	7.0mm	15.0mm	5.0mm	10mm	80mm

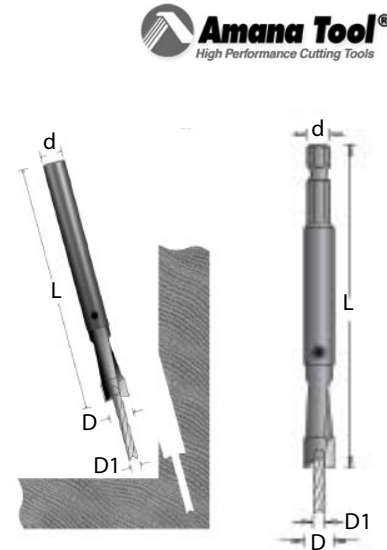


FACE FRAME DRILL/COUNTERSINK

- Precision ground carbide-tip bit counterbore for splinter-free cutting, non-slip surface treatment for positive clamping, wide web design for superior strength and replaceable HSS fishtail drills
- Available for face frame machines (type 1) and drill presses (type 2)
- Type 1 will fit Evans, Ritter, Unique, Marcon and Norfield face frame machines

Packing & Sold In: Each

Item#	Type	Description	DIMENSIONS			
			D	D1	d	L
AA424000	1	Counterbore/drill for face frame machines	3/8"	.136	3/8"	4"
AA424002	2	Counterbore/drill for drill presses	3/8"	.136	3/8"	6"
AA424004	-	#29 replacement HSS fish tail drill	-	.136	-	2-7/8"



SECTION Y BITS & CUTTERS

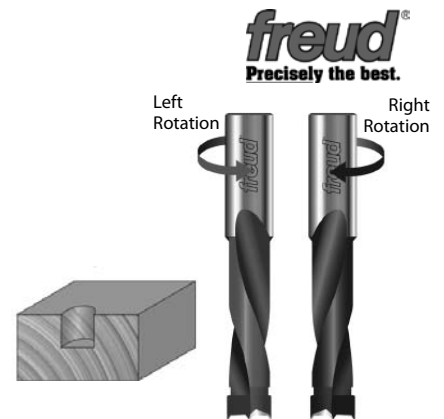
BORING ROUTER BITS

BRAD POINT BORING BIT

- The 10mm diameter shank is compatible with most boring machines
- Drills all composition materials, solid surface materials, plywoods, hardwoods and softwoods on automatic or manual multi-spindle boring machines
- Overall Length: 57.5mm
- Max Hole Depth: 27mm
- Shank Diameter: 10mm

Packing & Sold In: Each

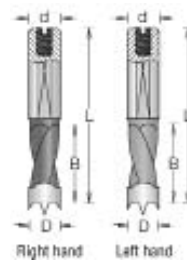
Item#	Cut Diameter	Rotation
ABBP50057L	5mm	Left
ABBP50057R	5mm	Right
ABBP63557R	1/4"	Right
ABBP80057L	8mm	Left



BRAD POINT BORING BITS

- Solid carbide cutting edge
- Should not be used in portable drills or routers

Packing & Sold In: Each

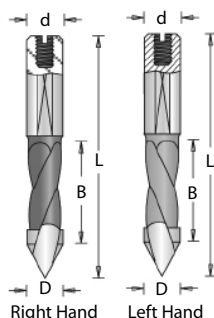


		DIMENSIONS						DIMENSIONS			
Right Rotation Item#	Left Rotation Item#	D	B	d	L	Right Rotation Item#	Left Rotation Item#	D	B	d	L
57mm Long, 10mm x 27mm Shank						70mm Long, 10mm x 35mm Shank					
AA201004	AA301004	4mm	27mm	10mm	57mm	AA204032	AA304032	3.2mm	35mm	10mm	70mm
AA201005	AA301005	5mm	27mm	10mm	57mm	AA204005	AA304005	5mm	27mm	35mm	70mm
AA201006	AA301006	6mm	27mm	10mm	57mm	AA204008	AA304008	8mm	35mm	10mm	70mm
AA201008	AA301008	8mm	27mm	10mm	57mm	AA204082	-	8.2mm	35mm	10mm	70mm
AA201010	AA301010	10mm	27mm	10mm	57mm	AA204007	AA304007	1/4"	35mm	10mm	70mm
AA201015	AA301015	15mm	27mm	10mm	57mm	AA204009	AA304009	3/8"	35mm	10mm	70mm
AA201007	AA301007	1/4"	27mm	10mm	57mm						

THROUGH-HOLE "V" POINT BORING BITS

- Right hand tools rotate clockwise and left hand tools rotate counter-clockwise
- Do not use in portable drills or routers

Packing & Sold In: Each



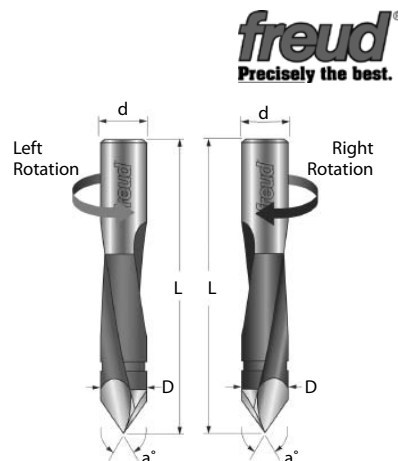
		DIMENSIONS			
Right Rotation Item#	Left Rotation Item#	D	B	d	L
57mm long, 10mm x 27mm Shank					
AA313005	AA413005	5mm	25mm	10mm	57mm
AA313008	AA413008	8mm	25mm	10mm	57mm
70mm long, 10mm x 35mm Shank					
AA314005	AA414005	5mm	40mm	10mm	70mm
AA314006	AA414006	6mm	40mm	10mm	70mm
AA314008	AA414008	8mm	40mm	10mm	70mm
AA314007	AA414007	1/4"	40mm	10mm	70mm

THROUGH-HOLE "V" POINT BORING BITS

- The 10mm diameter shank is compatible with most boring machines
- The 60° point makes for accurate hole location of through holes
- Drills all composition materials, solid surface materials, plywoods, hardwoods, and softwoods on automatic and manual multi-spindle boring machines

Packing & Sold In: Each

Item#	Rotation	DIMENSIONS				
		D Overall Diameter	Max Hole Depth	a° Angle	d Shank Diameter	L Overall Length
ABTH50070L	Left	5mm	35mm	60°	10mm	70mm
ABTH50070R	Right	5mm	35mm	60°	10mm	70mm



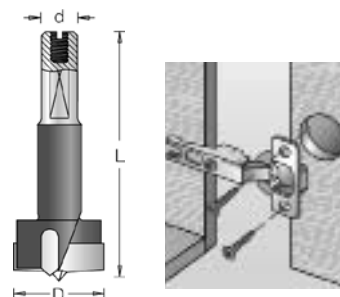
HINGE BORING BITS

- For use with boring machines and drill presses only
- 57mm long, 2 wings with spur
- Right rotation

Packing & Sold In: Each



Item#	Rotation	DIMENSIONS		
		D	d	L
AA203151	Right	15mm	10mm	57mm
AA203201	Right	20mm	10mm	57mm
AA203251	Right	25mm	10mm	57mm
AA203261	Right	26mm	10mm	57mm
AA203301	Right	30mm	10mm	57mm
AA203351	Right	35mm	10mm	57mm
AA203401	Right	40mm	10mm	57mm
AA203152	Right	15mm	10mm	70mm
AA203155	Left	15mm	10mm	57mm



HINGE BORING BITS Industrial Carbide Tipped Bit Cylinder (Hinge) Boring Bit

- Two spur cutters prevent bottom side tear out
- Application: Drills all composition materials, solid surface materials, plywoods, hardwoods, and softwoods. Use on automatic and manual multi-spindle boring machines

Packing & Sold In: Each



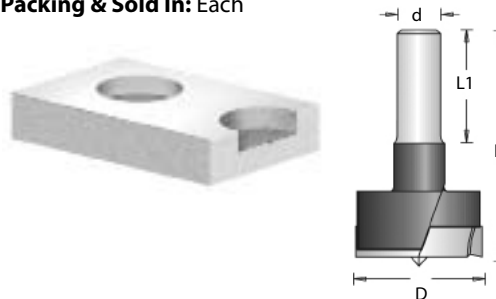
Item#	Rotation	DIMENSIONS		
		D Overall Diameter	d Shank Diameter	L Overall Length
ABCB20057R	Right	20mm	10mm	57.5mm
ABCB35057R	Right	35mm	10mm	57.5mm
ABCB40057R	Right	40mm	10mm	57.5mm

HINGE BORING BITS High RPM Speed Design



- Designed for high RPM (22,000) on plunge routers, CNC routers, machining centers and point to point machines

Packing & Sold In: Each



Item#	DIMENSIONS			
	D	d	L1	L
AA203431	35mm	1/2"	30mm	60mm

SECTION Y BITS & CUTTERS

BORING & DRILLING - FORSTNER ROUTER BITS

FORSTNER BITS

- Designed to drill flat holes in soft and hardwoods using portable or stationary equipment

Packing & Sold In: Each



Item#	Cut Diameter	Shank Diameter	Overall Length
AA600100	1/4"	5/16"	3-1/2"
AA600120	1/2"	5/16"	3-1/2"
AA600140	3/4"	3/8"	3-1/2"
AA600150	7/8"	3/8"	3-1/2"
AA600160	1"	3/8"	3-1/2"
AA600170	1-1/8"	3/8"	3-1/2"
AA600180	1-1/4"	3/8"	3-1/2"
AA600190	1-3/8"	3/8"	3-1/2"
AA600210	1-1/2"	3/8"	3-1/2"



FORSTNER BITS

Precision Shear™

- Double-ground, razor-sharp serrated edges
- 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
- Overall Length: 3-1/2"

Packing & Sold In: Each



Close-Up Showing
Serrated Edges

Item#	Cut Diameter	Shank Diameter	Item#	Cut Diameter	Shank Diameter
ABPB-003	1/2"	5/16"	ABPB-010	1-3/8"	3/8"
ABPB-005	3/4"	3/8"	ABPB-011	1-1/2"	3/8"
ABPB-006	7/8"	3/8"	ABPB-014	1-7/8"	3/8"
ABPB-008	1-1/8"	3/8"	ABPB-015	2"	3/8"
ABPB-009	1-1/4"	3/8"	ABPB-016	2-1/8"	3/8"

FORSTNER BIT SET

- Drills plywoods, hardwoods and softwoods
- Use in hand held drills and drill presses

Packing & Sold In: Each

Item#	Description
ABPB-107B	7 piece set contains from 1/4" to 1"



PLUG CUTTERS

- Standard plug cutter suitable for both softwoods and hardwoods
- Plug diameter is slightly larger than counter bore diameter for

Packing: 5 per box.

Sold In: Both broken and full box quantities.

Discount available for full box orders.

Item#	Plug Diameter	Max. Plug Length	Shank Diameter
DP11640375	3/8"	1/2"	1/4"
DP11640500	1/2"	1/2"	1/4"
DP11640625	5/8"	1/4"	1/4"



Fuller

PLUG CUTTERS

Self Ejecting Spiral

- Self ejecting style for making wood plugs
- 3/8" size is #4 through #10 screws and 1/2" is for #12 screws

Packing & Sold In: Each

Item#	Plug Diameter
DP14000750	3/4"
DP14001000	1"



Fuller

PLUG CUTTERS

1/4" Hex Shank

- Self ejecting style for making wood plugs
- 3/8" size is #4 through #10 screws and 1/2" is for #12 screws

Packing & Sold In: Each

Item#	Plug Diameter
AA608250	3/8"
AA608254	1/2"

