

# Gerber Routing Bits

## \*NEW\* Gerber Gold Routing Bits

New Gerber Gold bits take the guesswork out of choosing the correct bit for a specific substrate by grouping them by application. **To make life even easier**, the application is coded and etched into the shank of the bit, along with the part number for easy identification once the bit has been removed from its sleeve. These new competitively priced bits cut cleaner, faster, quieter and last longer. These high performance bits can be used with all Gerber routers and engravers, as well as with other routers, both automated and manual.

<u>Description</u>	<u>Material Code</u>	<u>Part Number</u>
Gerber Gold "O" APS 1/4 X 1/4 X 1-1/4	APS	P80339A
Gerber Gold "O" APS 1/4 X 1/4 X 3/4	APS	P80338A
Gerber Gold "O" APS 1/4 X 1/8 X 1/2	APS	P80336A
Gerber Gold "O" APS 1/4 X 3/16 X 5/8	APS	P80337A
GERBER GOLD 3DM 1/4 X 1/4 X 7/8	3DM	P80354A
GERBER GOLD 3DM 1/4 X 3/16 X 3/4	3DM	P80353A
GERBER GOLD 3DM 1/8 X 1/8 X 1/2	3DM	P80352A
GERBER GOLD 3DM 3/8 X 3/8 X 1-1/8	3DM	P80355A
GERBER GOLD APC 1/4 X 1/4 X 3/8	APC	P80359A
GERBER GOLD APC 1/8 X 1/8 X 1/4	APC	P80358A
GERBER GOLD APC 3/8 X 3/8 X 5/8	APC	P80360A
GERBER GOLD AW 1/4 X 1/4 X 3/4	AW	P79824A
GERBER GOLD AW 1/4 X 1/4 X 3/8	AW	P79823A
GERBER GOLD AW 1/4 X 3/16 X 3/8	AW	P79822A
GERBER GOLD AW 1/8 X 1/16 X 1/4	AW	P79820A
GERBER GOLD AW 1/8 X 1/8 X 1/4	AW	P79821A
GERBER GOLD AW 3/8 X 3/8 X 3/4	AW	P80307A
GERBER GOLD DE LV 3/8 X 3/8 X 1-1/8	LV	P80305A
GERBER GOLD F 1/4 X 1/4 X 1-1/4	F	P80349A
GERBER GOLD F 1/4 X 1/4 X 2-1/4	F	P80350A
GERBER GOLD F 3/8 X 3/8 X 1-1/2	F	P80351A
GERBER GOLD FT 1/4 X 1/2 X 3/8	FT	P80361A
Gerber Gold HPF 1/4 X 1/16 X 1/4	HPF	P80340A
Gerber Gold HPF 1/4 X 1/16 X 1-1/8	HPF	P80347A
Gerber Gold HPF 1/4 X 1/4 X 1/2	HPF	P80346A
Gerber Gold HPF 1/4 X 1/4 X 1-1/2	HPF	P80370A
Gerber Gold HPF 1/4 X 1/4 X 3/4	HPF	P80343A
Gerber Gold HPF 1/4 X 1/8 X 1/2	HPF	P80341A
Gerber Gold HPF 1/4 X 1/8 X 1/4	HPF	P80344A
Gerber Gold HPF 1/4 X 1/8 X 1-1/8	HPF	P80348A
Gerber Gold HPF 1/4 X 3/16 X 3/8	HPF	P80345A
Gerber Gold HPF 1/4 X 3/16 X 5/8	HPF	P80342A
GERBER GOLD LV 1/4 X 1/4 X 7/8	LV	P80304A
GERBER GOLD LV 1/4 X 1/8 X 3/8	LV	P80302A
GERBER GOLD LV 1/4 X 3/16 X 5/8	LV	P80303A
GERBER GOLD SE LV 3/8 X 3/8 X 1-1/8	LV	P80306A
GERBER GOLD SPF 1/4 X 1/16 X 1/4	SPF	P80367A
GERBER GOLD SPF 1/4 X 1/4 X 1-1/2	SPF	P80368A
GERBER GOLD SPF 1/4 X 1/4 X 3/4	SPF	P80364A
GERBER GOLD SPF 1/4 X 1/8 X 1/2	SPF	P80366A
GERBER GOLD SPF 1/4 X 1/8 X 1/4	SPF	P80363A
GERBER GOLD SPF 1/4 X 3/16 X 3/8	SPF	P80362A
GERBER GOLD SPF 1/4 X 3/16 X 5/8	SPF	P80365A
GERBER PLATINUM 1/4 X 1/4 X 1-1/4	GP	P79830A
GERBER PLATINUM 1/4 X 1/4 X 5/8	GP	P79828A
GERBER PLATINUM 1/4 X 1/4 X 7/8	GP	P79829A
GERBER PLATINUM 1/4 X 1/8 X 1/2	GP	P79825A
GERBER PLATINUM 1/4 X 1/8 X 1-1/8	GP	P80300A
GERBER PLATINUM 1/4 X 3/16 X 1-1/4	GP	P79827A
GERBER PLATINUM 1/4 X 3/16 X 5/8	GP	P79826A
GERBER PLATINUM 1/8 X 1/16 X 1/4	GP	P80356A
GERBER PLATINUM 3/8 X 3/8 X 1-1/8	GP	P80301A

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## Application Reference Chart for new Gerber Gold bits

HPF	Hard Plastic & Foam	Solid Surface (Avonite™, Corian®), Cast Acrylic
APS	All Purpose Straight	Substrates with thin laminates, Foam boards (clay coated paper and styrene surfaces; Fome-Cor®, Gatorfoam®, Gatorplast®)
GP	General Purpose	Gerber Platinum series is a high performance tool for use with Hard and Soft Plastic, Hard and Soft Woods, Wood and Plastic Composites.
AW	Aluminum & Wood	Alucobond®, Diond®, Dilite®, Hardwood, Softwood, Non-Ferrous Metals (Aluminum, Brass, Copper)
LV	Laminates and Veneers	Produces clean top and bottom edges on single and double-sided laminated substrates. Hardwood, Softwood, Wood Composites (MDO, MDF, Plywood, Particle board)
F	Foams (Special Long)	Specially designed for thick foams and soft plastics from 1-1/4" to 2-1/4". HDU (Precision Board™, Signfoam®)
3DM	3D Modeling	Ball Nose bit designed for three-dimensional modeling. Advanced grind technology produces a superior cut in plastics, woods composites and aluminum.
APC	All Purpose Cleanout	Produces a clean bottom finish with a .002" radius inside bottom edge. HDPE (Polycarve™), Aluminum, Woods, Solid Surface
FT	Folding Tool	Carbide tipped specialty bit designed for folding Alucobond®, Diond®, Dilite® up to 90-degrees.
SPF	Soft Plastic & Foam	PVC Foam (Celtec®, Trovicel®, Sintra®, Kometex®), HDU (Signfoam®, Precision Board™), Extruded Acrylic, Styrene, Polycarbonate (Lexan®), HDPE (Polycarve™)

## Gerber Gold Routing Bits (Traditional)

Gerber Gold routing bits are designed for greater performance and longer tool life. These remarkable routing bits are made from the highest quality micrograin carbide to the tightest tolerances in the industry. They are then coated with titanium nitride to enhance their durability even further. The result is superior edge quality and lower tooling cost. These high performance bits can be used with all Gerber routers/engravers, as well as with other routers, both automated and manual.

### Two-Flute Spiral Bits

These are the most versatile type of bits and are used for general routing of the following materials. These bits provide excellent chip removal from the cut because of the upward spiral action. They also assure excellent edge quality on these materials.:

**Harder Materials:** Such as plate aluminum, brass, bronze, copper; cast acrylics, solid surface materials, particle board, plywood, and hardwoods.

**Softer Materials:** Such as foam boards, engraving stock, PVC (Sintra®, Komatex, Trovicel®, Celtec, etc.) soft plastics, soft woods, and similar density materials.

<u>Shank Diameter</u>	<u>Cutting Diameter</u>	<u>Cutting Edge Length</u>	<u>Part Number</u>
1/8"	1/16"	3/16"	P50521B
1/8"	1/8"	1/4"	P50525B
1/8"	1/8"	1/2"	P50522B
1/4"	3/16"	3/8"	P50526B
1/4"	3/16"	5/8"	P50523B
1/4"	3/16"	1 1/8"	P50528B
1/4"	1/4"	1/2"	P50527B
1/4"	1/4"	3/4"	P50524B
1/4"	1/4"	1 1/2"	P50529B
1/4"	1/4"	2 1/4"	P50530B
1/8"	1/8"	1 1/4"	P52819B

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### Single-Flute Radial Bits

These bits are ideal for cutting sheet aluminum and brass with a thickness of .060" (1.5mm) and less, as well as soft woods and soft alloy aluminum. Unlike the spiral flute bits, these bits have a single straight cutting edge which doesn't pull up on the work piece. This straight flute allows the bit to "shear" the chip off at the top edge of the material being cut without leaving a burr. The chip extraction, however, will not be as good as a spiral bit.

<u>Shank Diameter</u>	<u>Cutting Diameter</u>	<u>Cutting Edge Length</u>	<u>Part Number</u>
1/4"	1/4"	1 1/2"	P50535B
1/4"	1/4"	3/4"	P50534B
1/4"	1/4"	1/8"	P50532B
1/4"	1/4"	3/16"	P50533B

### Three-Flute Spiral Tapered Bits

These bits can be used on all materials listed for the two-flute spiral bits. The difference is that the tapered bits give you an angle on the edge of the material being cut. As a result, these bits are excellent for cutting vacuum form molds. Also, when you want something other than a straight edge for special applications, these bits can be used to create a "halo" effect without adding any additional cost.

<u>Shank Diameter</u>	<u>Cutting Diameter</u>	<u>Cutting Edge Length</u>	<u>Part Number</u>
1/4"	1/8"	1"	P50643B
1/4"	1/8"	1/2"	P50531B

### Auto-Carve™ 3D Carving Bits

Gerber V-cutting carbide bits deliver superb cut quality, maximum cutting efficiency, and the longest possible tool life. These specifically designed tools are produced within extremely tight manufacturing tolerances, ensuring the level of accuracy essential to the automated carving process.

Design considerations that impact tool selection:

For **Small**, Intricate Graphics With Thin Stroke Widths: Choose a tool with a steep angle, such as the 90° tool.

For **Large** Graphics With Wide Stroke Widths: Choose a tool with a more shallow angle, such as the 150° tool.

<u>Shank Diameter</u>	<u>Tool Diameter</u>	<u>Tool Degree</u>	<u>Part Number</u>
1/4"	1 1/4"	100°	P56372A
1/4"	1 1/4"	110°	P56373A
1/4"	1 1/4"	120°	P56374A
1/4"	1 1/4"	130°	P56375A
1/4"	1 1/4"	140°	P56376A
1/4"	1 1/4"	150°	P56377A
1/4"	1 1/4"	90°	P56371A

### ADA Compliance Bits

These bits are used to create ADA (Americans with Disabilities Act) compliant signs. All have shank diameters of 1/4" (6.0mm). The Long Type for use with Dimension 200 and Sabre Engraver Options. The Short Type has the same tip geometry as the Long Type, but are cut shorter for use in a Router Motor or High Frequency Spindle Option.

<u>Description</u>	<u>Part Number – Long Type</u>	<u>Part Number – Short Type</u>
<b>Braille Cutter</b> (used to cut Braille dots)	P47763A	P47849A
<b>.015" Profile Cutter</b> (used to cut ADA sign borders and surface-mounted text)	P50624A	P50622A
<b>.060" Parallel Cutter</b> (used for cutting both letter clean-out pockets in the sign face and matching male characters for Auto-Inlay™ method)	P50623A	P50625A

## Gerber Engraving Bits

Gerber also offers high quality, long and short type industry standard engraving bits. Designed to give excellent results with Gerber equipment, they also work with other routers/engravers. Gerber engraving bits are ideal for applications using Dimension Plus®, ROWMARK®, acrylic, polycarbonate, and other plastic materials.

### Engraving Bits (Long Type)

These bits are for top-loading engraving spindlers. Use with Gerber Engraver Options.

<u>Shank Diameter</u>	<u>Cutting Diameter</u>	<u>Part Number</u>
1/4"	.010"	P47767A
1/4"	.020"	P47769A
1/4"	.030"	P47771A
1/4"	.060"	P47775A
1/4"	.090"	P47777A

### Engraving Bits (Short Type)

These bits are for bottom-loading collet systems. Use with Router Motor or High Frequency Spindle Option.

<u>Shank Diameter</u>	<u>Cutting Diameter</u>	<u>Part Number</u>
1/4"	.010"	P50536A
1/4"	.020"	P50537A
1/4"	.030"	P50538A
1/4"	.060"	P50539A
1/4"	.090"	P50540A

## Gerber Specialty Bits

<u>Description</u>	<u>Part Number</u>
Table Surfacing Bit. For use with a Router Motor or High Frequency Spindle. Its purpose is to mill the sacrificial table surface perfectly flat in respect to the Z axis and aid in precise depth control when cutting. <b>(1/4" shank dia.)</b> AR600 or Sabre	P52617A
Table Surfacing Bit. For use with a Router Motor or High Frequency Spindle. Its purpose is to mill the sacrificial table surface perfectly flat in respect to the Z axis and aid in precise depth control when cutting. <b>(1/2" shank dia.)</b> AR600 or Sabre	P56327A
Table Surfacing Bit. For use with a Router Motor or High Frequency Spindle. Its purpose is to mill the sacrificial table surface perfectly flat in respect to the Z axis and aid in precise depth control when cutting. <b>(1/4" shank dia.)</b> Dimension 200	P50569A
.750" Round Nose Cutter. This cutter has a full 3/8" (9.5mm) radius on the bottom for producing a rounded groove for specialty applications, or can produce a negative radius on the edge of piece to be cut out. <b>(1/4" shank dia.)</b>	P26495A