

Technical Notes

Sintered Bond Router Bits

Alpha Professional Tools®, the leader in stone fabrication technology, is proud to introduce a new line of Alpha® Router Bits to fit popular tabletop routers. The initial offering includes two Position #1 bits in the most popular profiles: a Full Bullnose and a Demi-Bullnose for 3cm material. These professional, high quality bits are capable of performing smooth and quick profiling on granite and engineered stone. Equipped with a rotary touchier, which sets the depth of cut by riding along the edge of the stone, to eliminate any guesswork. The sintered diamond bond is specifically designed to provide extended life for use on granites of all hardness and all brands of engineered stone and quartz surfaces. These bits are versatile and will perform well, when used with water, on all brands of routers with speeds ranging from 5,000 to 11,000 RPM. Future plans call for Alpha® to expand the offering to include other popular profiles, sizes and positions. Alpha® Router Bits: their versatility, superior performance and ease of use make them the best bits money can buy.

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Part No.	Thickness	Maximum RPM	Shape	Description
RBS30V	3cm, 1-1/4"	11,000	V	Position #1 - Full-Bullnose
RBS30B	3cm, 1-1/4"	11,000	B	Position #1 - Demi-Bullnose
RBS40V	4cm, 1-1/2"	11,000	V	Position #1 - Full-Bullnose

How to Use

Cut the workpiece to size

Attach the Alpha® Vacuum Brazed Router Bit onto your portable router.

Adjust the height of the router bit to desired position for edge you are creating.

Adjust the water spray nozzles to assure that proper lubrication coolant is being supplied to the router bit.

Start your project.

Always refer to the owner's manual for proper usage and attachment of accessories onto the power tool.

Frequently Asked Questions (FAQs)

What materials can I use the Alpha® Sintered Bond Router bits on?

The Router Bits can be used on various materials such as granite, engineered stone and quartz surfaces.

What shapes are offered for the Sintered Bond Router Bits and for what thickness material?

Alpha® Router Bits are available for the following in Position #1 only:

- 3cm – Full Bullnose
- 3cm – Demi-bullnose
- 4cm – Demi-bullnose

What is the minimum and maximum RPM at which I can use the Alpha® Sintered Bond Router Bits?

Alpha® Router Bits should not be used lower than 5,000 RPM and not to exceed 11,000 RPM. Router bits used at a higher RPM range will grind the material quicker than one at a lower RPM range.

Does Alpha® provide threaded screws for securing the router bit onto the router?

Yes. We provide two screws with every router bit. The 8mm threaded with a 10mm shoulder bolt and a 10mm threaded bolt. These are the two most common thread sizes for routers available today.

What is the difference between “Sintered Bond” and “Vacuumed Brazed” router bits?

Vacuum Brazed router bits have the diamonds attached to the outside of the router bit body. They will never change their shape. The Alpha® Vacuum Brazed Router Bits have been proven to grind in half the time of sintered bond router bits in most cases. Sintered Bond router bits are molded into shape and have the diamonds within the matrix of the wheel. After using these sintered router bits for long periods of time, the shape of this sintered bond wheel will change.

My sintered bond router bit lost its shape, how can I achieve longer life from this wheel?

I would suggest using the Alpha® Vacuum Brazed router bit as a position #2 wheel, once you realize your sintered bond router bit lost its shape. Since these Vacuumed Brazed Router Bits will not change their profile, you can use it to correct the profile after you have removed the majority of the stone by the worn down Sintered Bond Router Bit. It is not necessary to throw away the Sintered Bond Router Bit that has lost its profile as it may still have some life.

Can I use the Alpha® Sintered Bond Router Bits Dry?

No. The Router Bits are designed for wet applications only.

How does the Alpha® Sintered Bond Router Bit give you a straight line across the surface of the material?

The ball bearing/rotary touchier within the Alpha® Router Bits controls the depth of grinding during the application to ensure the final profiled edge will be straight. Note: Profiling is complete when you no longer hear grinding noises and the runoff water is clear.

What is the life expectancy of the Alpha® Sintered Bond Router Bits?

Life of both styles of Alpha® Router Bits will differ when used on different classifications of granite hardness. Our Router Bits achieve a very long life and have fast grinding action. Vacuum Brazed diamonds give you an aggressive grinding action, and longevity without having the shape of profile changed.

Helpful Hints

- Alpha® Vacuum Brazed Router Bits are WET USE ONLY.
- When changing router bits on your router, always test on a scrap piece of material to assure wheel is adjusted properly for the edge design you are going to grind.
- Vacuum Brazed Router Bits can be used as position #2 when your sintered bond router bit loses its shape.
- If Alpha® doesn't carry the profile you wish to create, please contact us for consideration to expand the product line of router bits.

Reference

For more product information, visit us on the web at www.alpha-tools.com.