

Technical Notes

Vortex for Marble

Alpha® expanded our line of flush cutting and intricate cutting applications by introducing a new blade, the Alpha® Vortex, specifically designed for cutting marble and softer stones. Similar in the design to the Alpha® Libero, the Alpha® Vortex has an advanced electroplated bond which outperforms any other blade when cutting softer grades of natural stone. The dual side protection segments improve the strength and durability, while creating a flush cutting blade superior to any other available in the market. Together with the quad adapter, this blade is designed to fit on most high-speed angle grinders. Stone fabricators will love the versatility of this blade and the ease with which it can complete flush cutting operations. Whether you use this blade in the shop or in the field, it brings you the quality and long life you expect from a premium blade and the convenience of accurate and precise cutting performance on softer types of natural stone.

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Part No.	Size	Maximum RPM	Arbor
FCM50AH	5"	12,200	20mm Quad Drive

How to Use

Mount the Alpha® Vortex for Marble blade onto the Alpha® BAH-5/8 adapter making sure the countersunk holes drilled into the blade are facing upward. Align the hole pattern of the blade together with the hole pattern of the adapter and insert the countersunk screws. Tighten the screws, using a screwdriver, making sure the heads of the countersunk screws are level with or, below the height of the blade core.

The Alpha® Vortex for Marble blade is now ready to be mounted onto a 5" high-speed angle grinder with a 5/8" -11 threaded spindle.

Always refer to the operation manual of the power tool for correct mounting procedures.

Frequently Asked Questions (FAQs)

What materials can be cut using the Alpha® Vortex for Marble blade?

The Alpha® Vortex for Marble blade is designed to be used on marble and softer materials. The electroplated diamonds assure smooth clean cuts without chipping or cracking the material.

Can I use the Alpha® Vortex for Marble blade to cut granite?

No. The Alpha® Vortex for Marble blade utilizes electroplated diamonds which are designed to cut only soft material. If you use this blade to cut hard materials such as granite, the electroplated diamonds will round-over / dull and the blade's cutting ability will be lost almost immediately.

The Alpha® Vortex for Marble is a dry cutting blade, can I use this blade for wet application?

Yes. Wet cutting will generally increase blade life and keep harmful dust (Silica) out of the air.

What sizes are available for the Alpha® Vortex for Marble blades?

See chart on Page 1.

What is the cutting edge rim height of the Alpha® Vortex for Marble?

The rim height for the 5" Alpha® Vortex for Marble is 3mm.

What is the spindle size required for use of the BAH-5/8 adapter?

Your power tool needs to have a 5/8"-11 threaded spindle for use with this adapter.

Does Alpha® offer other spindle sizes for the BAH and FAH adapters?

Yes. Other spindle sizes are available. Please contact your dealer or Alpha® directly to learn more about these other thread sizes.

Can I use the Alpha® Vortex for Marble blade on my polishing tool?

No. The RPM speed of polishers is too slow. Diamond blades are recommended to be used on high-speed angle grinders rated for your blade diameter..

What applications are the Alpha® Vortex for Marble blades designed for?

The Alpha® Vortex for Marble blades are designed for flush cutting and making 90 degree inside corners. This blade is also designed for cutting curved shapes.

Can I use the Alpha® Vortex for Marble blade without the BAH adapter?

No. The Alpha® Vortex for Marble blades must always be used together with the BAH adapter. Alpha® does not recommend mounting the Vortex for Marble blade directly onto the flange of a power tool without the BAH adapter due to the counter sunk holes drilled within the core of the blade.

Helpful Hints

- Use of water will prolong the life of your dry cutting blade as well as keep harmful dust (Silica) out of the air.
- We recommend the step-cutting method to prolong the life of the diamond blade.
- While cutting thick material, back-off frequently to cool off the blade and prevent over-heating.
- Use the flanges and adapters which are specifically made for your power tool.

Reference

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