

Technical Notes

AWS-110

The AWS-110 Wet Stone and Tile Cutter is ideal for those working with natural and engineered stone, tile, concrete, masonry and glass. It was designed to produce straight and true cuts as required by professional fabricators and installers. Equipped with one of the most powerful motors in its class, the AWS-110 has the strength to power through hard dense materials, such as, porcelain, hard red granites and engineered stone. The water-feed supply eliminates the harmful dust particles common in dry cutting applications. The included self-stick felt strips can be applied to the base plate to protect the work surface from scratches. The AWS-110 may be used several ways. With the reversible ruler guide down, one can work off the edge of the stone; in the up position, it can glide along a straight edge. Of course, it may be used free hand and either wet or dry. The AWS-110 is more than a saw; it is a complete cutting system that can be used for cutting, scoring, profiling and more. It is designed and manufactured with the highest quality standards, as are all Alpha Professional Tools® products.

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Part No.	Description
AWS-110	Wet Stone Cutter 4-1/2" 110V
AWS-220	Wet Stone Cutter 4-1/2" 220V

Specifications:	Equipment Included:
Rating.....110/220 Volts	• Ground Fault Circuit Interrupter
Amperage.....11.2/5.5	• Water Valve and Hose
Power.....1200W	• Faucet/Garden Hose Adapter
No-load Speed.....13,000 RPM	• Wrench
Weight.....6.8 lbs/3.1kg	• Straight Cutting Guide (reversible)
Arbor.....20mm	• Extra Carbon Brush Set
Cutting Disc Diameter.....4" / 100mm, 4-1/2" / 115mm	• Self-Stick Felt strips

How to Use

1. Select the desired blade for the application to be performed.
2. Attach the blade onto your AWS-110/220 Wet Stone Cutter making sure to pay attention to the blade direction.
3. Connect water supply hose to a standard garden hose.
4. Plug unit into power supply and reset the GFCI.
5. Open water control valve to the desired volume
6. Press power switch to begin your application.

Refer to the owner's manual for proper usage & mounting instructions for this tool.

Frequently Asked Questions (FAQs)

What is the ideal material I can cut using the AWS-110/220 Wet Stone Cutter?

The Alpha® AWS-110/220 Wet Stone cutter is ideal for those working with granite, marble, engineered stone, crystallized glass, concrete, masonry and glass.

What blade arbor size is required for use of the AWS-110/220 Wet Stone Cutter?

The arbor size required is 20mm.

Can I use the AWS-110 Wet Stone Cutter for cutting sink bowls for 2cm material?

Yes. We recommend using our 4" Curve Cutting blade (part #: CCB004) for this application.

Can I use the Wet Stone Cutter for dry applications?

Yes. This saw was specially designed for wet cutting applications since it has insulated electrical parts and an in-line GFCI; however, it can also be used for dry applications.

What is the warranty for the AWS-110/220?

Alpha® warrants the AWS-110/220 for a period of 180 days from the date of original retail purchase (proof of purchase is required) and is limited to the repair or replacement of parts without charge.

If my AWS-110/220 breaks down, whom should I contact for repair?

You can contact the dealer where you purchased the tool or you can send it directly to Alpha® for repair.

What can I do if my AWS-110/220 breaks down and I need to complete the job immediately?

First check the carbon brushes, if they appear worn out, replace them with genuine Alpha brushes. Test the AWS-110/220 before attempting to resume cutting. If the problem still persists, contact the Tool Repair Department at Alpha® for further assistance.

Is there a maintenance program for the AWS-110/220?

No. Replacement of the carbon brushes on a periodic basis is the first step to any type of maintenance. If complications begin to arise during cutting, or if unusual noises occur, then we recommend that you send your tool for maintenance. Our Tool Repair Department will evaluate the tool and provide an estimate for your approval before performing any work. The sooner a tool is checked after noticing an abnormal noise, the less likely there will be a significant amount of damage.

What kind of blades can I use on my AWS-110/220?

- o Contour for Granite: CCB004
- o Eclipse: DEE04AL, DEE05AL
- o Hot-Rod (Marble) HM03A+, HS03A+
- o Hot-Rod: (Granite) HR03A+, HT03A+, HQ03A+
- o Katana: DPT100, DPT115
- o Libero: DL04A+, DL05A+
- o Numero Uno: GM05A+
- o Plus: DA04A+, DA05A+
- o Porcellana: PT04A+
- o Vetro: WG0438
- o Sonic: TS04AL, TS05AL
- o Tuck Point: TP04SP
- o Vetro: WG0438

What is the metal attachment that comes with the saw used for?

This item is called the Guide Ruler or TT Ruler Guide. It is designed to enhance the cutting performance of the AWS-110/220 by providing a guide that will work against the straight edge of the stone or a rail of some type clamped to the stone surface.

Why does the TT Ruler Guide have two extension arms?

Most other manufacturers on the market only have one extension arm. While one extension provides the ability for the saw to cut in a straight line, some harder applications tend to make the saw pull sideways. The second extension prevents this sideways movement and provides the operator with a sturdier means to accomplish a straight cut.

What is the RPM of the AWS-110/220 Wet Stone Cutter?

RPM of the AWS-110/220 is: 13,000.

During cutting, I noticed that the blade wants to pull away from the cut. How can I prevent this?

First use either the TT Guide Ruler provided with the AWS-110/220 Wet Stone Cutter or you can use the Guide Rail System with your AWS-110/220 Wet Stone Cutter attached. Secondly, before you begin to cut, check the condition of the blade. If the diamonds are glazed, the blade will not perform regardless of the equipment you use it on. Lastly, don't force the blade to cut. Apply slow even pressure to allow the diamonds in the blade time to cut for the best cut.

How can I get the parts list and schematic for the AWS-110/220?

Visit our website at www.alpha-tools.com or call at 800-648-7229.

There are two felt strips supplied with my AWS-110/220 Wet Stone Cutter, what are they used for?

You can attach these two felt strips to the bottom of the base plate to prevent any possible scratching of the material. With out these felt strips, the base plate would slide directly on the surface of the material. Felt strips are highly recommended for glass cutting applications.

The GFCI is tripping frequently. What I can I do?

If the GFCI is tripping frequently, there could be several problems.

1. Water is getting inside the stone cutter. Dry the tool with compressed air.
2. The voltage drops due to sharing the same power source in a work area.
3. You are applying too much force to the tool. Back off on the pressure.
4. Contact Alpha® - tool repair for further advice.
5. You may have a loose outlet. Make sure the power cord plug is tightly inserted in the power outlet.

Helpful Hints

- Read and follow the instructions in the operating manual thoroughly.
- Take care to ensure that the cutting area is clear of debris and no one will be in a position to interfere with the cutting application.
- Select the right blade for the specific cutting application.
- Before beginning your cut, make sure that the power cord is routed behind you
- Use slow, steady pressure while cutting.
- Blow out the cooling vents to dry up any moisture periodically.
- Step-cut on thick materials.
- Take care to prevent moisture from entering into the cooling vents.
- Keep felt strips clean of debris to avoid possible scratching of the material.
- Use the Guide Rail System with your AWS-110/220 Wet Stone Cutter.

Reference

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