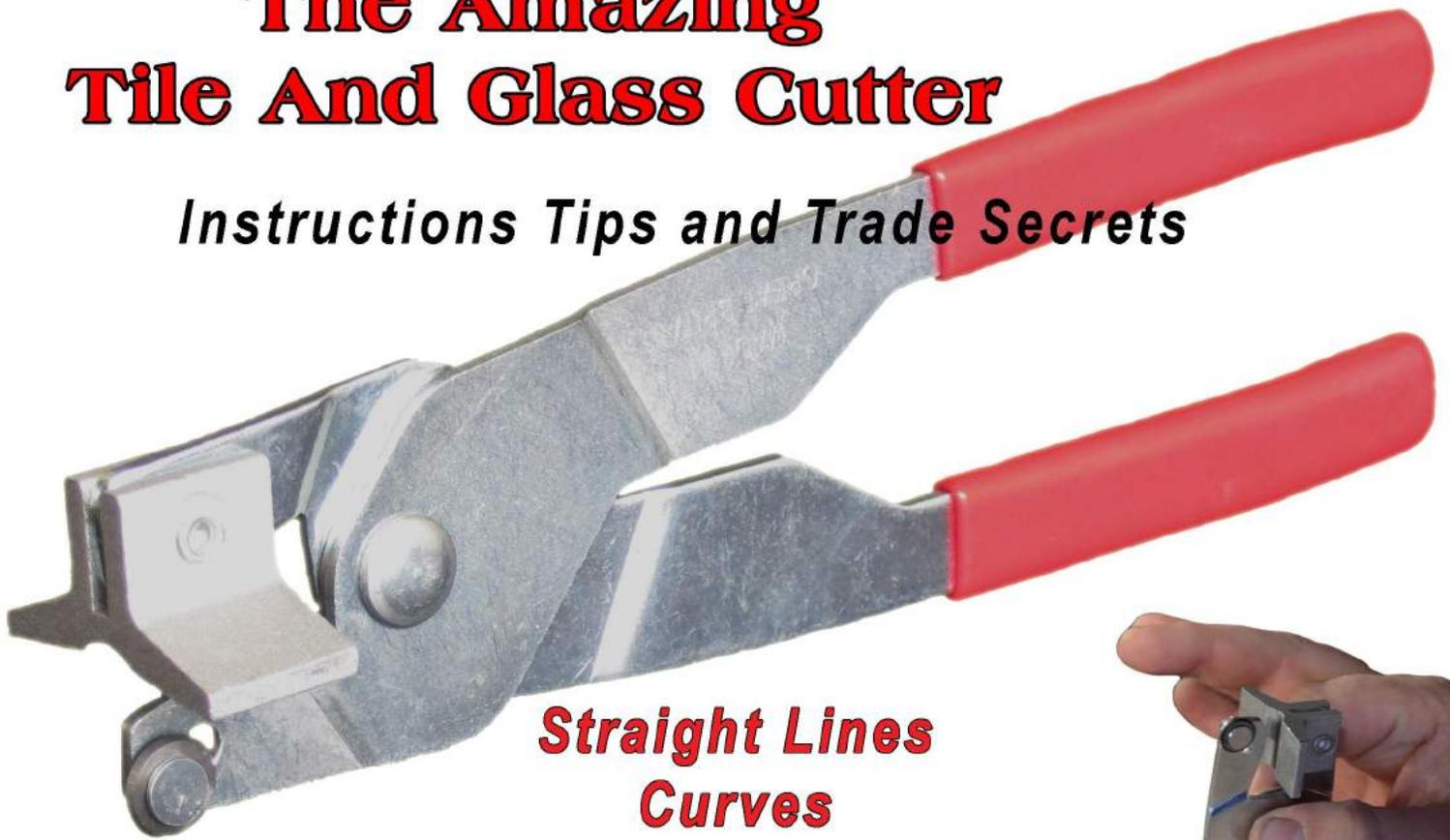


The Amazing Tile And Glass Cutter

Instructions Tips and Trade Secrets



**Straight Lines
Curves**

Diagonal Cuts

Thick Tiles

Long Tiles

Quarry Tiles

Wall Tile

Floor Tile

Glass Tile

Mirror

Stained Glass

Fused Glass

Plate Glass

Picture Frame Glass



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Oiling the wheel is "Essential", it lubricates and lets the wheel score instead of dragging across the tile. If you do not oil it, it will not work. Light oil like sewing machine oil, or 3 in 1 work best. Spray type oils are not good for this. Oil the wheel each 2 or 3 scores for tile and every single score for Glass, as it also gives a cleaner break. The wheels are replaceable and will cut 1000 linear feet. Oiling the wheel every cut will extend the life. Replacements are always available on our website.



Holding the Tile & Glass Cutter the correct way is an absolute must, always hold it as close to the Scoring Wheel as possible when scoring, this not only gives more pressure, it gives a lot more control. If you get into the habit of picking it up by the center rivet between your finger and thumb, then wrap your hand around it you will always be holding it correctly. Yes It really does matter.



Holding the Tool Incorrectly, i.e. by the Handles while scoring Will Not apply anywhere near enough pressure onto the Scoring Wheel and will prevent the tool from working efficiently. Holding the tool way back there like this will also require a lot more strength to score as you do not have any leverage, and you will not be able to make the tool do what it is supposed to do, the handles are just for squeezing once the material has been scored correctly, and not for holding while scoring.



With Floor Tiles and Porcelains use the two-hand method, this gives you the extra pressure needed for those hard and thicker tiles. A bench or solid table at waist height with a wooden or MDF board on top makes a great cutting surface, this allows you to lean over to apply more pressure using your upper body weight. Running off the edge of the tiles at the end of the score and hitting a wooden board below will not do damage to the wheel and it will ensure you score all the way to the edge.



This shows an incorrect two handed method for scoring Floor Tiles, although two hands are being used, the strongest hand has been moved back and is now holding the handles and not applying any pressure at all to the wheel, so now we only have the weakest hand applying pressure to the wheel, whilst this might work for Wall Tile and Glass it will definitely not work for scoring Hard Tiles Like Floor Tiles & Porcelains.



The Amazing Tile & Glass Cutter comes Right-Handed unless you ordered Left-Handed. So If you hold the tool in your left hand when scoring, remove the wheel and put it on the side that you can see. This way you can follow a line as you can see the wheel, you will also be running the flat on a straight edge instead of the nut, it will also feel more balanced in your hand. To remove wheel, put pressure on the flat screw head with your finger while turning the nut with pliers or socket drive. A sharp quarter turn will tighten or loosen.



Start the score on top of the tile or glass not over the edge, if you start over the edge you will build up pressure and jump the first quarter inch or so of the score and it will not break correctly there. Always score towards you, not away from you as the further your arms are from your body the weaker they are and the weaker your score will be. It is easier to follow a line pulling towards rather than pushing away, when pulling towards you, its possible to see the back of the wheel and the line you drew at the same time, so easier to follow.

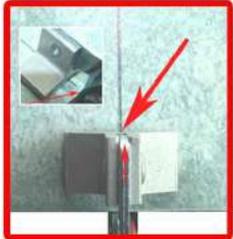
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For Straight Lines, either draw a line with a marker and follow it by looking at the back of the scoring wheel and following it as you score, or run the flat side of the wheel against a speed square or thick straight edge held or clamped down firmly, don't use another tile or piece of wood, they are not smooth and will grab and prevent the wheel getting a good score. If you are left-handed remember to flip the wheel to the other side so you can see it.



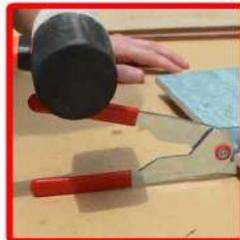
Position the breaker straddled over your score line, so when you look down at the front of the breaker the score is in line with the top bar. Push the tile "ALL" the way into the jaws or you will chip the edge of your tiles when you squeeze. Squeeze from the end of the handles, the further back the better and more leverage, now "GENTLY" and gradually increase pressure as you squeeze, this allows the handles to bend slightly then the tile will bend and break. Try not to over squeeze!



Larger Tiles and Porcelain Tiles are harder to squeeze, you may find it easier to place the tile on a flat surface and bend the tiles over something like a small diameter drill bit or bolt, if you can put one at each end directly under the score even better. Place your hands equal distance apart palms down and push down equally and firmly with both hands. Once a large tile is cut in half it is easier to handle. For narrow strips like 2 inch it is easier to cut a 4 inch strip first then cut it in half. Remember to lean over and use 2 hands when scoring.



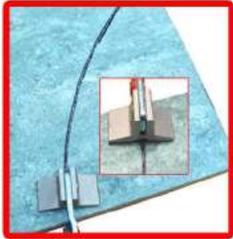
If you have scored the tile hard enough but cannot physically squeeze it, you can line the tool up as though you were going to squeeze it, sit it down on a solid surface, and give it a sharp tap with a mallet or hammer. Using the side of the hammer instead of the face will give a wider contact area and less chance of missing it etc. This is how we cut the thick Quarry Tiles in our live demonstrations. It also demonstrates how tough the tool is.



Diagonal cuts need a firm score, squeezing is possible if you are very gentle, but as you do not have a lot of material to squeeze, you will find it easier to break the tile over the edge of a bench, so you do not chip the edges. Line the score up over the edge of the bench. With one hand hold down the half tile that is on the bench, grab the overhanging half with your other hand and with a short sharp lift and snap downwards and if scored correctly it will break cleanly along the score.



Radius / Curved cuts can be made by drawing a line and following the line by looking at the back of the wheel as you score very firmly. Up to a quarter of a circle can be cut in a single cut, to do a semi-circle we saw a straight line down the center, then we can score and break two quarter circles. For Wall Tiles you can saw using the Rodsaw in a Hacksaw and to saw through Floor Tiles and Porcelains use one our Diamond Grinder Blade in an Angle Grinder.



To Break curved cuts, straddle the breaker on the score, then angle the top center bar, as if it were a continuation of the curve, then the bottom bar will push up from below the score line, push the jaws in as far as possible or you will chip the edge of your tiles. Hold the piece that you want so as not to drop or chip the edge. For deep or large radius cuts you will have more success squeezing gently, and alternating sides, gradually increasing the pressure, so it meets in the middle.

General Questions and Answers : Tile

Instructions Tips and Trade Secrets

For Safety Always wear Goggles, Mask and Gloves when operating Tools

Question: *How thick a piece of Tile can be cut?*

Answer: There is no limit to how thick the material can be scored with the Amazing Tile & Glass Cutter but the maximum we can get in the jaws is approx 3/4" thick. The thicker tiles usually requires a much firmer score to create the weakness etc. Always score the weaker side, 99% of the time the surface will be harder than the back. If you cannot get your hands around the handles to squeeze, line the tile up in the jaws and give the handles a sharp smack with the side face of a mallet or hammer.

Question: *How long a Tile can be cut?*

Answer: The longest piece we have cut is a 5ft piece of 1/4" porcelain in a demonstration. It needs to be on a level surface preferably waist height so you can walk alongside as you score. We regularly cut the 2ft x 1ft tiles in our demos but they do need a good firm score, if you cannot squeeze you may find it easier bending the tile over something at least initially, (more details in first pages of instructions).

Question: *Can I cut 1/8" off the edge of a piece of Tile?*

Answer: It is physically impossible to break a piece of Tile off narrower than say twice the actual thickness of the tile itself. Absolute minimum would be 2 to 2.5 x the thickness of the tile. For example if you wanted to cut a piece off the edge of a quarter inch thick piece of tile the absolute minimum amount you would be able to cut off the edge would be 1/2" to 5/8". Tile is like glass it will always take the path with least resistance, so if you try to cut something close to an edge the tile will break to the edge instead of through the thickness of the material.

Question: *Can I cut 90 degree inside corner with the Tile Cutter?*

Answer: Sharp angles in tile are not possible in one single cut. The reason being, when you squeeze the tile to break it you are literally bending the tile and you cannot make it stop and then bend in a different i.e around a corner. You can cut 90's and notches in Wall Tile, Marble, Slate and Travertine with the Tungsten Grit Rodsaw, Hacksaw and Jigsaw Blades, and you can do the same in Porcelains Granite and Stone using our Diamond Grinder Blades and Diamond Hole Saws.

Question: *Can I cut out a shape in the middle of a Tile with the Tile Cutter?*

Answer: As you have no way of squeezing the tile in the center it is not possible with the cutter. The way to make cutouts in the center of the tiles depends on the type of Tile.

Cutouts in Ceramic Wall Tile, Marble Slate and Travertine:

For Square Cutouts for outlets - Drill a hole in each corner with Spear Point Tile & Glass Drill, then join the four corners using a Tungsten Carbide Grit Jigsaw Blade.

Round Hole for Pipework - Diamond Grit Edge Hole Saw and a regular Drill.

Cutouts in Floor Tile. Porcelain, Granit and Stone:

For Square Cutouts for outlets - Draw the size of oblong / square for the outlet then do four plunge cuts with our Diamond Grinder Blade, can be used wet or dry and cuts Metal, Masonry, Stone and Tile products.

Round Hole for Pipework - Diamond Grit Edge Hole Saw and a regular Drill, multiple holes overlapping can cut a hole big enough for an outlet, the wall plate will cover a multitude of sins.

General Questions and Answers : Tile

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Tips for Cutting Glass & Mirror

Instructions Tips and Trade Secrets

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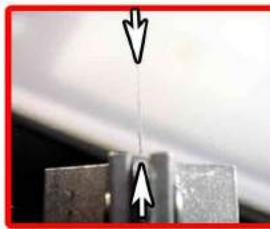
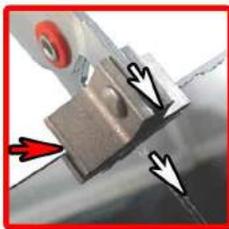
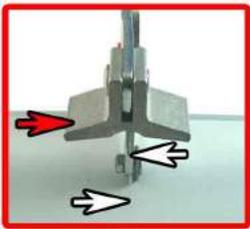
Oiling the wheel every cut for glass is "Essential", firstly it lubricates the wheel and allows the wheel to turn freely and score instead of dragging across the surface. The oil runs down onto the glass when scoring, cooling it down at the same time, it also prevents the glass from trying to heal itself. This is what the splinters are that you will see jumping into the air if you score glass with a dry wheel. "Dry Cutting" also referred to as "Hot Cutting" glass does not give a clean edge and most of the time as the glass does try to heal, it prevents it from breaking along the line you scored. If you already have glass cutting oil that works fine, if not a light machine oil like sewing machine oil, or 3 in 1 work best. The spray type oils are not very good for this so avoid those. The wheels are replaceable and will cut 1000 linear feet. Oiling the wheel every cut will extend the life. Replacements are always available on our website.

How to Hold When Scoring Glass



Holding the Tile & Glass Cutter the correct way is an absolute must, always hold it as close to the Wheel as possible when scoring, this not only gives more pressure, it gives a lot more control. If you get into the habit of picking it up by the center rivet between your finger and thumb, then wrap your hand around it you will always be holding it correctly. If you do not have a lot of strength in your hands or you are struggling to make a score line, use the two-handed method and also lean over so you are above the cutter as you score, this will use upper body weight instead of strength, its the same technique I use for cutting hard and thick Floor Tiles.

How To Line up the Cutter on Glass



Lining the cutter up to break the glass is just as important as scoring the glass correctly. If cutting clear glass we have the advantage that we can actually see through the glass and see exactly how the tool lines up below, when we are dead centered straddled over the line above. The more the centered the score line is the cleaner the break will be. The white arrows in pics show the score line centered you can see the lower bar of the Glass Cutter.

The red arrow indicates how far in we want to place the breaker when squeezing the glass, by only going into the jaws about a half inch or so or 2/3rds the depth of the aluminium breaker head instead of all the way like we do on tiles. This makes it easier to start the run on glass, it will be far easier to squeeze as it gives more leverage. Try altering the depth and you will get a feel for the perfect amount you want to go into the jaws to start the squeeze and the glass running. Not far enough in though and you will chip the edge of the glass and not get the run to start.

How to Hold When Squeezing Glass

Squeeze the handles from as far back as you can, squeeze very very gently and slowly increase the pressure as you squeeze, once you see the glass start to run you can ease off a little, then you will see that the break will start to travel / run exactly in colleration with the amount of pressure you apply to the handles. If you dont make the whole length you can squeeze from the other end and meet in the middle etc. Small pieces will break almost as soon as you touch the glass with jaws of the cutter.

Tips for Cutting Thin Glass & Mirror And or Narrow Strips

Instructions Tips and Trade Secrets

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At first glance it looks like The Amazing Tile & Glass Cutter would not be able to squeeze and cut very thin glass or narrow strips of glass due to the size of the gap between the bottom bar and the aluminum breaker. However simply by reducing the size of the gap it is possible to cut pieces of thin glass or narrow strips that would not normally be possible with a regular glass cutter and running pliers. So how do we reduce this gap? We rotate the breaker!!



First stand the cutter up with the handles touching the bench, grab the aluminum breaker head between your pointing finger and thumb of each hand as in the pictures, then roll the breaker down and forward so it will swivel on the rivet thus closing the gap and allowing us to cut and squeeze some ridiculously narrow and thin pieces, if it is stiff to move you can place one side of the breaker in an open vice and then just push the handles in either direction.



If the breaker is too loose you can tighten the rivet by placing the head of the rivet on a solid surface and hitting the open side of the rivet with a ball peined hammer to squeeze the aluminum to the metal handles. If you are only using it for thin glass all the time you can superglue the aluminum breaker so it stays in that position permanently.



It will always be easier to cut a strip in half than trying to cut a strip off the edge of a piece of glass, for example if you want a quarter inch strip in 1/16" thick glass, instead of trying to cut a quarter inch strip off the edge of the edge, first cut a half inch strip off then cut that piece in half. The stress in the glass is equalled out when each side is similar in width, as it takes even pressure to bend both sides and bending it is what we are actually doing when we break it.



More Tips for Cutting Glass & Mirror

Instructions Tips and Trade Secrets P5

For Safety Always wear Goggles, Mask and Gloves when operating Tools

How to Cut Straight lines on Glass



Straight Lines on Glass, either draw a line with a marker on the glass, or draw onto a piece of paper and place it below the glass, follow the line by looking at the back of the scoring wheel and following the line closely as you score slowly and firmly. The Cutter can be run up against a smooth thick straight guide like a speed square for perfect straight lines as long as it is a very smooth edge. The flat circle on the side of the wheel is there so it can be used against a guide, running the wheel itself against a thin ruler as a guide will not work because as the wheel turns it will try and will run up and over the guide. It is possible to stick something below the steel rule like adhesive backed rubber strips this will not only raise the height of the guide it will also prevent it from sliding. When using a straight edge on glass you need to concentrate on two things equally, holding the guide still and making sure you are actually scoring the glass as you run it against the guide, apply a drop of oil to the flat circle on the cutter and this will make it run along the guide smoother too. Take your time and do a few practice scores and you will soon master this.

General Questions and Answers : Glass

Instructions Tips and Trade Secrets

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Question: How thick a piece of glass can be cut?

Answer: There is no limit to how thick the material can be scored with the Amazing Tile & Glass Cutter but the maximum we can get in the jaws is approx. 3/4" thick. For glass we say up to half an inch thick, small pieces we would squeeze with the cutter but for large pieces we score the glass firmly and then line the score line up over the edge of a bench similar to how we cut the diagonals in large floor tiles, then lift and sharply snap downwards literally hitting / bending the glass over the edge of the bench directly below where it was scored.

Question: How long a piece of glass can be cut?

Answer: The longest piece we have cut in a demonstration was an 8ft piece of mirror 1/4" thick. It needs to be on a level surface preferably waist height so you can walk alongside as you score. If it is a mirror on the wall already its possible to score with the cutter but you will need to be able to get something like a drill bit behind the score so you can bend the glass over it and get it to break.

Question: Can I cut 1/8" off the edge of a piece of Plate Glass?

Answer: It is physically impossible to break a piece of glass off narrower than say twice the actual thickness of the glass itself. Absolute minimum would be 2 to 2.5 x the thickness of the glass. For example if you wanted to cut a piece off the edge of a quarter inch thick piece of glass the absolute minimum amount you would be able to cut off the edge would be 1/2" to 5/8". Glass will always take the path with least resistance, so if you try to cut something close to an edge the glass will break to the edge instead of through the thickness of the material. You can get away with a bit more on thinner glass as it literally bends easier and will allow slightly narrower than twice thickness.

Question: Can I cut 90 degree inside corners?

Answer: Sharp angles in glass are not really possible. You can do a shape with a rounded corner and tap it gently or work the score from each side slowly squeezing etc. to make the glass break, but when you squeeze glass you are literally bending it and you cannot bend the glass in two directions at once i.e around a corner. With practice and by doing multiple cuts and tapping, you can do some unusual shapes. You can of course use our Diamond Holesaws to make cutouts for outlets and pipework even in glass and mirror.

Question: Can I cut out a shape in the middle of a piece of glass?

Answer: It is possible to cut a circle if its big enough say 6" plus. But you have no way of squeezing it with the cutter so the only way to break it would be continuous tapping. So this takes time but here is the technique. First draw the circle and score around the line, then we make dozens of score lines from one edge of the circle straight across to the other side, then perpendicular score lines crossing over the first set this will give us hundreds of tiny square & rectangular shapes in the circle. We turn the glass over placing the scores face down and we start pushing down on the perimeter score line and gently tapping with the handles of the cutter, the glass will crack around the circle, once that crack is complete we turn the glass scores up again and start tapping from the center with the breaker of the cutter gently gently gently, after a short while one of the tiny squares will break out once this starts the rest will tap out and start to break away be patient and you will complete the whole circle. For a square shaped hole such as an outlet we would use our diamond hole saws and make multiple holes on top of each other, this way there is no sharp corners likely to crack.

General Questions and Answers : Glass

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Multiple Videos of
The Amazing Tile And Glass Cutter
Are available on our vimeo site along with
Videos of all the other Products we sell in or-
der to complete your Tiling Project.

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