# How to Use a Ring Saw

Being able to effectively use a ring saw makes the impossible glass cuts possible. With a ring saw straight, round and diagonal cuts are as easy as 1-2-3. The project shown was made using a ring saw.




## MATERIALS:

- Ring Saw (Item # 57003 or 84130)
- Project Appropriate Blade:
  Item # 57002 or 84131 – Standard Blade
  Item #57007 or 84132 – Separating Blade
  Item #57109 or – Slicer Blade
  Item #57004 or 84108– Mega/Super Power Blade
  Item #57001 or 84107– Dichroic/Fine Blade
  Item #57006 – Slim Blade
- Safety Glasses (Items #5163 or 425702)
- Water

## BEFORE USING YOUR RING SAW:

- Always wear protective eyewear.
- Check the water level in the reservoir to ensure you have enough water to cool the blade.
- Keep in mind that a ring saw has a round blade that can cut in any direction. This allows greater freedom when cutting and being able to easily add detail to your projects.

## STANDARD BLADE: *(For use with most projects and most glass.)*

1. Tape or draw your pattern on the glass.
2. If you have inside cuts like on the witch's skirt on the piece shown, it is recommended to "carve" or grind out small areas first to help the glass maintain its strength and to avoid breakage. (A)

*Standard Blade instructions continued on next page.*


(A)


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## Standard Blade Continued:

3. After detailed cuts are made, begin cutting the glass with the blade along the edge of the pattern. (B) Continue until the pattern is completely cut or a relief cut is necessary. On the witch project, a relief cut was made wherever curves ended.

TIP: If you would rather draw your pattern with a permanent marker, you can protect the marks from washing away by using Mark Stay (Item #50481).

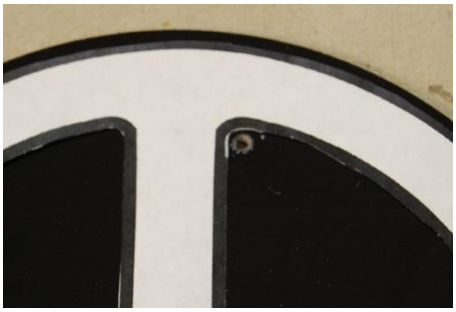
(B)



## SEPARATING BLADE: *(For use with inside cuts.)*

1. Tape or draw your pattern on the glass.
2. Drill a hole into your glass at your starting point. (A) We suggest using a 1/8" drill bit. You can drill the hole with a rotary tool, drill press or hand held drill. Always use water to prevent thermal shock and to reduce glass chipping.
3. Place the separating blade on the ring saw according to manufacturer's instructions. Once installed, gently roll the blade around to locate the separation. (B)
4. Gently pull the blade apart and insert into the hole in glass. (This might be easier to perform with two people.) (C)
5. Once you get the blade through your starting point, reattach the ends of the blade to begin cutting. (D)
6. Repeat steps 2 and 3 as needed (or) revisit step 3 to release glass from blade.

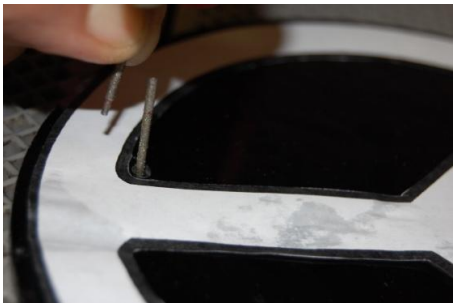
(A)



(B)



(C)



(D)



TIP: Tape the outside edges of the pattern to the glass so the tape adheres to the entire pattern's edge. This will hold your pattern in place when cutting.


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Add to the versatility of your ring saw by utilizing the other blades available:

## SLICER BLADE:

Cut slab glass, pattern bars, millifiori, streamers, cane, rods and other small objects in perfectly parallel thin slices. Cuts slices as thin as 1/8".



*The project above is an example of the patterns that can be made with the slicer blade. The mega/super power blade could easily cut through the thickness of the bowl.*

## MEGA/SUPER POWER BLADE:

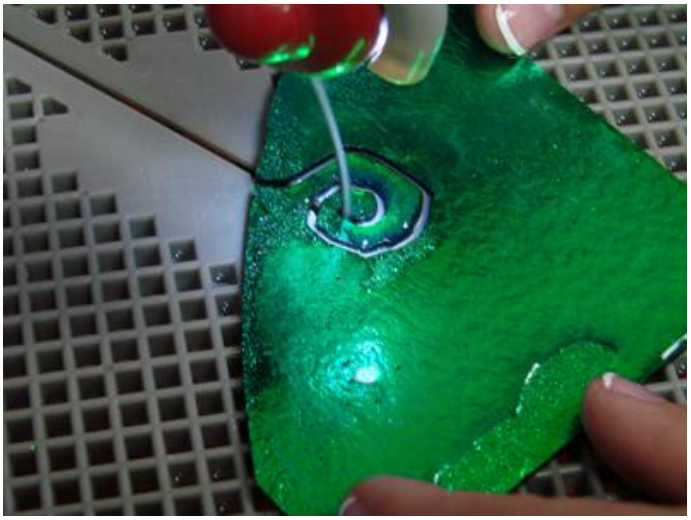
Power through thicker or heavily textured glass with ease.

## SLIM BLADE:

Used to minimize loss of glass with a smaller blade resulting in a thinner width cut.

## DICHROIC/FINE BLADE:

Protect the delicate coating on your dichroic and iridized glass from chipping. The dichroic/fine blade is a slim blade with fine grit. This provides the needed protection for the delicate coating along with the narrow cut.



*The photo above is demonstrating the use of a dichroic/fine blade. The slim blade produces the same narrow cuts.*


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