



# AGPTEK INTRODUCTION TO BOTTLE CUTTER





# I Introduction

Recycling and cutting bottles have never been so much fun. Our novel bottle cutting tool is all you need to carve out your bottle into any shape you want. The only thing that will limit you here is your imagination. You can use it to make beautiful and useful items that can be used for a myriad of purposes. You can even make an excellent gift for your friend’s next birthday.

In the following pages, we will introduce the main features of the bottle cutter. Next, the steps on how you can use the bottle cutter will be explained. Finally, some suggestions as to what kind of items can be made are given.

Before beginning, please read this introduction carefully.

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## II Start Your Environmental Life

Recycle glass bottles and jars and create functional art at the same time! Create your own glass sculptures, sun catchers and ornaments easily with this bottle cutter. Sturdier and easier to use than plastic models, this highly durable metal bottle cutter will have you cutting bottles perfectly in 4 easy steps. Cut even the hardest of bottles such as those containing champagne and carve out items without even a single scratch. Although the glass bottle cutter takes a bit of time to get used to, however, once you've got the hang of it, you'll be able to cut any bottles easily.

It is the perfect way of recycling waste bottles and thus the bottle cutter is the ideal tool for you to play your part in keeping the environment clean.

## III Etching Tool Requirements

The basic requirement of the etching tool, of course, is to scribe a single continuous line on the bottle glass.

To achieve this, two basic features must be met:

(1) The cutting wheel must be perpendicular to the glass at all times and parallel to the direction of motion for proper tracking.

(2) It is necessary to keep the etch straight.



## IV How to Adjust the Machine

Before you use the etching tool, you need to adjust the machine according to the size of your bottle glass. The right point of contact on the bottle is very important for getting a good score. To achieve this, the following three steps must be followed.

**Step 1:** Adjust the rear rollers and put the bottle glass on the machine. Next, estimate the diameter of two rear rollers. Then turn loose the screws of the rear roller and fix it with the equipped wrench. When you are taking out the screws you may find that it is hard to rotate, so when you try to fix them, it is a good idea that you press one side of the screw and fix another side. It will take some time to get it right, so be patient and keep trying.



The perfect place of adjustment is when the roller just sticks to the bottle.

**Step 2:** Adjust the front roller and cutter roller

Following step 1, adjust the front and cutter rollers so that they are aligned and fix the screws.



**Step 3:** Adjust the cutter.

It is desirable to be able to adjust the guide so that the cuts can be made at different locations on the bottle. Additionally, you just need to cut one score and not try to repeat etching.

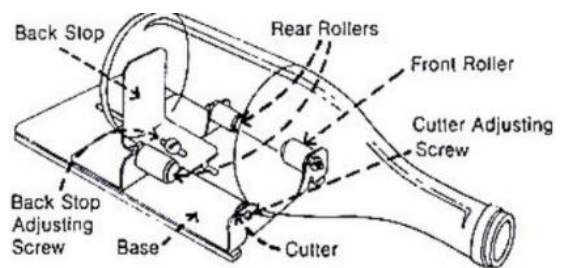
If you can't get any score, please check your etching part, and adjust it as given in part III.

## V How to Use it

Let's start and cut a bottle to get the hang of it. A good bottle for starters is a smooth, round, straight-sided wine, beer or pop bottle. Make sure all the labels are off (soak the bottle in water to remove the labels). Remove the cap if there is one. The following steps describe the cutting procedure in detail. If you need other language, please check on page 11.

### STEP 1: ADJUST THE MACHINE

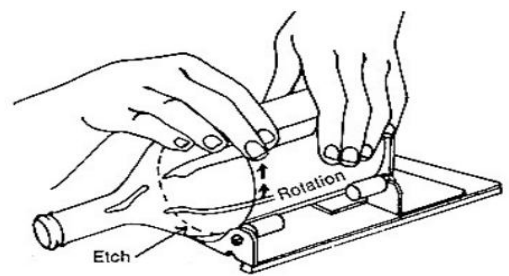
Decide where you want to cut the bottle by loosening the screw. Move the cutting wheel forward for a shorter cut, otherwise move it backwards for a longer cut. To make an extremely shallow cut, remove the screw from the slot and reverse the position of the backstop.



When cutting a bottle or jug that has a larger diameter, increase the distance between rear rollers and backstop so that bottle rests securely on rollers.

### STEP 2: CUT A LINE ON THE BOTTLE

This is exactly the same as making a score line when cutting the glass. A very light etch is all that is required. Apply only slight pressure on the bottle while rotating the bottle toward you with your hands. Note the position of the hands in sketch.

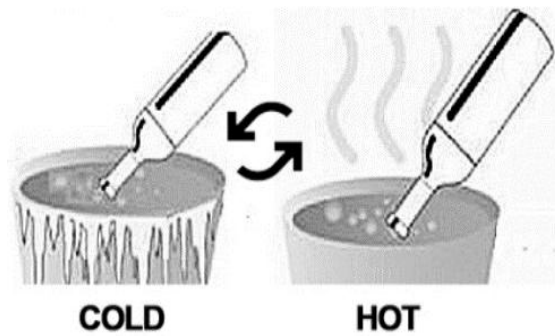


To assure an accurate cut, place the bottle firmly against the backstop and keep moving the bottle. A slight crunching sound will signal the completion of the etch.

Best results are obtained and damage to the cutter wheel is avoided when the etch is not duplicated. If the etch is properly scribed, the ends will meet.

### STEP 3: HEAT & COOL THE CUTTING LINE

Soak the etch with little hot water and rotate the bottle at a faster pace to give a uniform temperature to the glass. The bottle should feel hot to the touch, but not too hot to handle. Then put it into cold water and rotate. Repeat the above steps for 2- 3 times or more.

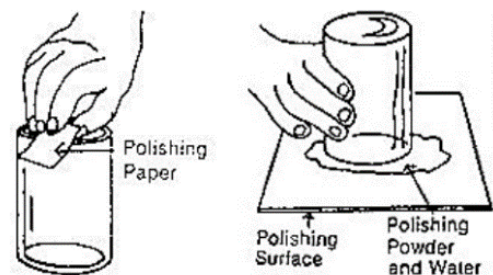


When you are repeating the steps, you may hear audible "clicks" indicating that the intact portions along the etch are now cracking.

Remember, don't use excessive force, and let the glass work itself free!

### STEP 4: SMOOTH THE CUTTING LINE

To prevent chipping, rub the inside and outside edges lightly with a piece of a coarse polishing paper. Then use a small amount of powder on a flat, hard surface. Dip the edge of the glass in water and then place on the polishing surface. Start to grind in a circular motion as shown in sketch. After a short time, the edge of the glass will become flat. Again, smooth the inside and outside edges with the polishing paper.



#### **Note:** Helpful Hints & Cautions

- Brush some light machine oil on cutting wheel prior to cutting.
- The lighter the etch, the better the separation.
- Do not cut over labels.
- The glass cutting wheel should always be at a right angle to the glass surface.
- Always wear eye protection while working with glass and remove the bottle cap before cutting.

## VI Suggested Items to Make From Bottle Glasses

Now coming to the fun part! Let your imagination run free and if you have any ideas, just do it. The following suggestions have been made that give you a detailed description with pictures. You can try to make them. If you have any new items, take a picture and send it back to us. We welcome your input and would love to share your experience and feature them in future editions of our booklet.

### **Suggestion 1** Drinking glasses, bowls and ash trays

Certain bottles make good drinking glasses because of the designs molded into the glass. Large diameter bottles make useful bowls. You can also cut the bottles turn them into fishbowls and terrariums.



### **Suggestion 2** Flower vases

Long, tall bottles make very pretty vases. Also, you can use the top part of the bottle to use as an inverted hanging vase with simple ropes.



### **Suggestion 3** Self-watering planter

The idea works quite well for tall bottles with short necks. As shown, the bottle is cut at the point where the top of the inverted upper half is fairly close to the bottom of the lower half. You can determine this point by measuring the distance between the top of the bottle and the point at which the bottle starts to curve inward. Use this measurement as the distance to cut from the bottom of the bottle. Poke a few holes into a small piece of the neck before filling it with potting soil. Now, put water into the bottom glass and you've got a self-watering planter that takes only the amount of water it needs.





#### **Suggestion 4** Candle holders and goblets

Goblets and candle holders are simply made with the bottle top turned upside down and stuck onto its own bottom. If a very short bottom is desired, do the following: (1) cut the bottle where it starts to curve inward; (2) lightly rub the bottom portion with grinding cloth to smooth any possible rough spots and place the edge against the guide on the bottle cutter;(3) adjust the bottle so that the glass cutter wheel is close to the bottom. You will end up with three pieces- the short bottom, the middle cylinder and the top portion. Use the bottom and top for the goblet or candle holder and the middle cylinder can be saved for interesting future projects.



Also a simple lamp shade can be made out of the bottle tops. You can just add a piece of wood to the bottom of the bottle, and put the candle inside the bottle.

#### **Suggestion 5** Lamp shades

Use the top part of the bottle and make it airtight with a wine stopper. Try to drill a little hole in the wine stopper. Pass the wire through the hole and put the electric light into the bottle. When the light is turned on, you will be amazed by the excellent effect.



#### **Suggestion 6** Wind chimes

Wind chimes can be made by simply stringing the top and glass rings. You can use a wine stopper to fix the chimes. It's better to get some bells and shells to make different sounds. If you don't have one, cotton balls made by ropes are also OK.



#### **Suggestion 7** Salt and pepper shakers



Here is a real practical use for bottle tops of your choice. Epoxy a bottom onto the glass; this can be made of plastic, wood or whatever. For the top, purchase several plastic bottle top covers and poke a few holes into them with a hot nail.

### **Suggestion 8** Christmas tree decoration

Some Christmas decorations and picture frames are quite easy to make. With a little practice you should be able to make successive 1/2 inch cuts on the bottle of your choice. To keep the displays inside of the ring intact, it's best to glue a thin plastic round cover onto each side of the ring.



### **Suggestion 9** Egg holder

Select the bottom part of bottle with deep concave, and use it as an egg holder.



### **Suggestion 10** Hour glass

A unique contemporary hour glass can be made by epoxying two top halves of identical bottles of your choice, mouth-to-mouth. One of the two halves can be placed on top of the other as shown in the picture with any material sandwiched in-between to limit the flow of fine sand. The top and bottom platforms as well as the dowels can be made from your favorite hand polished wood.



### **Suggestion 11** Star-shaped decoration

Star-shaped decorations are made by splitting the rings and then regluing them back to back. We like the sequence of the splitting rings. Readjust the cutting wheel on your cutting tool straight up. After scoring the line, just reach inside of the ring with the handle of a small screwdriver and tap lightly along the line until the sound



changes, signifying the glass is cracked. Repeat the operation at the opposite side of the ring (180 degrees). When regluing the pieces, it's best to roughen up the joints with emery cloth so that the epoxy will hold better.

## VII Suggested Materials for DIY Arts

### Suggestion 1 Flash powder

Flash powder can make the bottle more attractive and give you visual effect of a bling. 3M tape and white glue are good choices to stick with flash powder. Also, you can mix colors of different powders.



### Suggestion 2 Rope

Using ropes to decorate the bottles can be a good idea if you are a literary arts fan.



### Suggestion 3 Airbrush

If you want to get some colorful bottles, you can use the airbrush to paint them. Also, you can draw some pictures on the bottles.



## VIII Conclusion

It's sincerely hoped that you'll enjoy reading and accomplishing the suggested projects in this booklet. Some of these projects can be quite difficult and, understandably, some people don't have the desire to experiment with them.

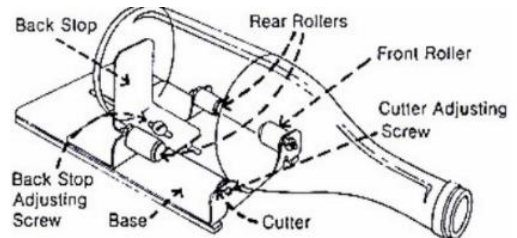
The important thing is to be comfortable with your work; and if it's just making water glasses out of bottles, that's great! Your comments would be appreciated. If you are especially proud of a project you have built, please send

us a picture and we will include it in future editions of this booklet.

## Deutsch

### SCHRITT 1: STELLEN SIE DIE MASCHINE

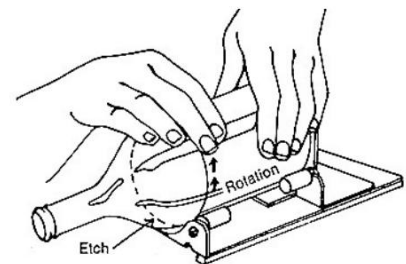
Kürzeren Schnitt und rückwärts für einen längeren Schnitt geschnitten werden zu sollen. Damit ein extremer Einschnitt in der Flasche geschnitten wird, bewegen Sie die Schraube aus Steckplatz und fallen Position der Rücklaufsperr zurück.



Um eine Flasche oder Krug mit großem Durchmesser zu schneiden, erweitern Sie Distanz zwischen hinteren Rollen und Rücklaufsperr, so dass die rechte Flasche sicher beim Montageplattform festlegen wird..

### SCHRITT 2: SCHNEIDEN SIE EINE LINIE IN DER FLASCHE

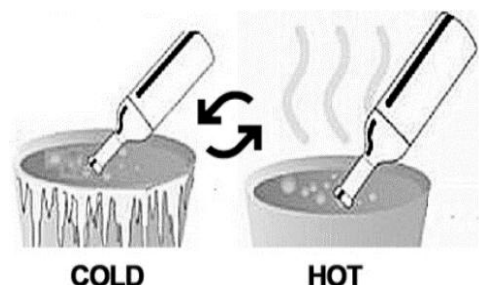
Dies ist genau das gleiche wie eine Schnittlinie beim Schneiden des Glases. Eine leichte Schnittlinie ist alles, die was erforderlich ist. Tragen Sie nur leichten Druck auf die Flasche, während Sie die Flasche mit Ihren Händen drehen. Bitte Nicht mit der Hand einfach die Schnittlinie als eine Skizze werfen. Um einen genauen Schnitt zu gewährleisten, halten Sie die Flasche fest gegen die Rücklaufsperr, dann drehen Sie die Flasche. Ein leichter knachender Klang wird die Fertigstellung von der Schnittlinie signalisieren.



Besten Ergebnisse werden erzielt, und Schäden an den Fräser-Rad wird vermieden, wenn die Schnittlinie nicht dupliziert wird. Wenn die Schnittlinie richtig dupliziert wird, kann man die Ziel treffen.

### SCHRITT 3: HEIZEN & KÜHLEN DIE SCHNITTLINIE

Setzen Sie der Flasche in warmes Wasser, und drehen Sie die Flasche in einem schnelleren Tempo, um eine einheitliche Temperiertes Glas



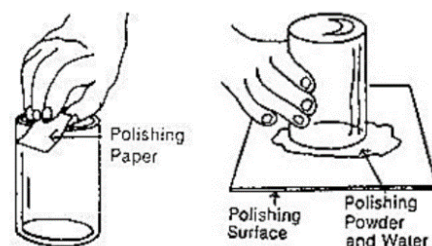
zu geben. Die Flasche sollte heiß fühlen und anföhlt, aber nicht zu heiß zu behandeln. Dann legen Sie sie ins kalte Wasser und drehen. Wiederholen Sie diese Schritte für 2 - 3 Mal oder mehr als.

Während die wiederholte Schritte können Sie "Klicks" hören, gibt das an, die UNGERISSENEN Teile entlang der Schnittlinie jetzt geknackt sind.

Bitte beachten Sie, verwenden Sie keine übermäßige Kraft, lassen Sie das Glas selbst frei arbeiten!

#### SCHRITT 4: HEIZEN & KÜHLEN SIE DIE SCHNITTLINE

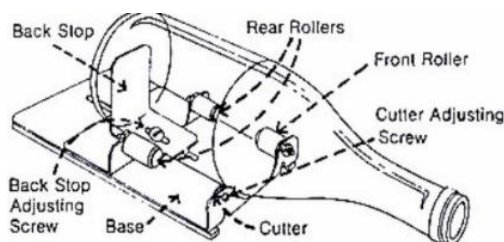
Zum Absplittern, reiben Sie Innen- und Außenkante leicht mit einem Stück von der größeren Palierenpapier. Verwenden Sie dann eine kleine Menge Pulver auf eine flache, harte Oberfläche. Tauchen Sie den Rand des Glases ins Wasser und platzieren Sie dann auf die Oberfläche des Palierenpapiers. Starten Sie in eine Kreisbewegung zu drehen. Nach kurzer Zeit wird der Rand des Glases flach werden. Glätten Sie Innen- und Außenkante mit dem Palierenpapier noch einmal.



### Français

#### TAPE 1 : RÉGLER LA MACHINE

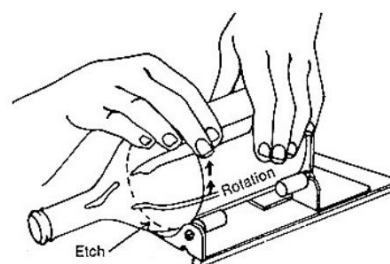
Décider où vous voulez couper la bouteille en desserrant légèrement la vis et la molette de coupe vers l'avant pour une coupe plus courte et vers l'arrière pour une coupe plus longue. Pour réserver une shallow extrêmement couper, enlever les vis de fente et inverser la position de butée.



Lorsque vous coupez une bouteille ou une cruche de grand diamètre, augmentez la distance entre rouleaux arrière et filet afin que la bouteille reste solidement sur des rouleaux.

#### TAPE 2 : COUPER UNE LIGNE SUR LA BOUTEILLE

C'est exactement la même chose que faire

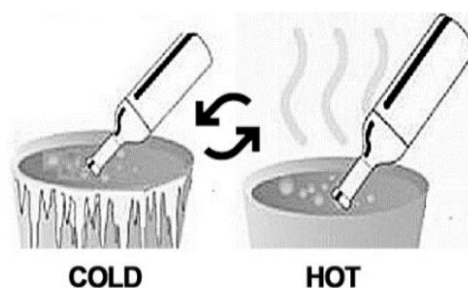


une ligne de pliure quand couper de verre. Une légère etch est tout ce qui est nécessaire. S'appliquent qu'une légère pression sur la bouteille tout en substance la bouteille vers vous avec vos mains. Pas la position des mains sur le croquis. Pour assurer une coupe précise, garder la bouteille fermement contre l'écran pare-balles et gardez-le en déplacement. Un léger bruit de craquement marquera l'achèvement de l'etch.

Les meilleurs résultats sont obtenus, et dommages à la molette sont évité lorsque l'etch n'est pas dupliqué. Si l'etch est décrit correctement les extrémités seront réunira.

### TAPE 3 : CHAUFFER ET REFROIDIR LA LIGNE DE COUPE

Placer la bouteille dans l'eau chaude et retâter la bouteille à un rythme plus rapide pour donner un tempature uniforme sur le verre. La bouteille doit se sentir chaude au toucher, mais pas trop chaud à gérer. Mettez-la dans l'eau froide, puis faire pivoter. Répétez les étapes pour 2 - 3 fois ou plus.

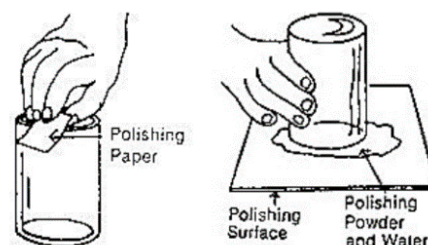


Durant les mesures répétées, vous pouvez entendre audible « clique» ce qui indique que les parties non fissurés le long de l'etch sont fissurent maintenant.

N'oubliez pas, n'utilisez une force non nécessaire, laissez le verre lui-même travailler librement!

### TAPE 4 : LISSER LA LIGNE COUPE

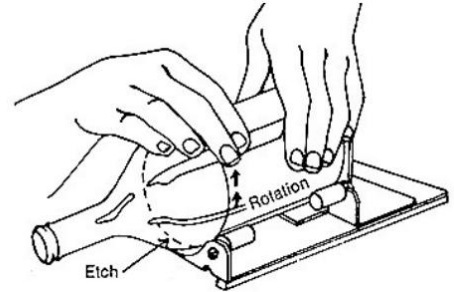
Pour éviter l'écaillage, frotter l'intérieur et l'extérieur des bords légèrement avec un morceau de la plus grossière papier à lustrer. Puis, utilisez une petite quantité de poudre sur une surface plane et dure. Tremper le bord du verre dans l'eau et puis placer sur la surface de polissage. Commencer à moudre dans un mouvement circulaire, comme illustré sur le croquis. Après un court instant, le bord du verre va devenir plat. Encore une fois, lissent l'intérieur et les bords extérieurs avec th papier à lustrer.



## Español

### Paso 1: Ajustar el cortador

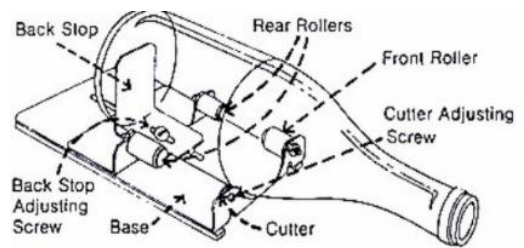
Decida donde quiere cortar, ajuste los tornillos y rodillos para cortar. Para hacer un corte más corto, muévalos adelante. Para hacer un corte más largo, muévalos atrás. Para hacer un corte poco profundo, quite los tornillos de la ranura y revierta la posición de Back Stop.



Cuando cortando una botella o jarra de largo diámetro, aumente la distancia entre los rodillos traseros y Back Stop para que la botella coloque con seguridad en los rodillos.

### Paso 2: Cortar una línea en la botella

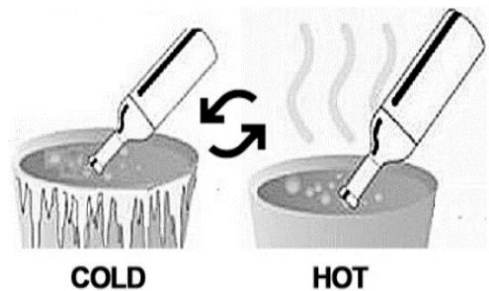
Es exactamente como hacer una marca de corte cuando cortando el vidrio. Se necesita sólo grabar una línea. Presione la botella sobre el cortador dando las vueltas necesarias hasta que quede una marca de corte bien definida. Para asegurar un corte preciso, mantenga la botella contra el Back Stop con firmeza y hágala moviendo. Un sonido de crujir significa el acabo de grabar.



Así tiene el resultado mejor y ha evitado los daños al rodillo para cortar cuando no intenta de grabarlo para dos veces. Si lo hace correctamente, los bordes van a coincidir.

### Paso 3: Calentar y enfriar la línea de corte

Enjuague la línea de corte con agua caliente girando la botella para darle una temperatura uniforme al vidrio. El agua debe ser caliente al tocar pero no tan caliente para manejar. Entonces póngala en el agua frío y gírela. Repita 2 – 3 veces o más.



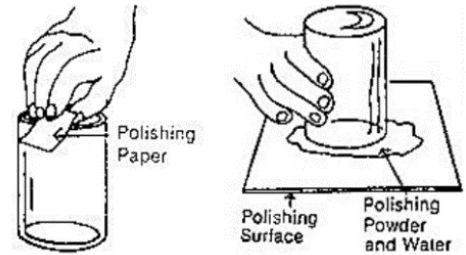
Cuando repitiéndolo, va a oír “clics” indicando que la botella se parta por sí

misma.

¡ Acuérdese que no usa una fuerza inconveniente y déjela funciona libremente!

#### Paso 4: Pulir el borde

Para evitar romperla, limpie el lado suavemente con un paper grueso de pulir. Entonces ponga unos polvos sobre una superficie plana y dura. Moje el borde del vidrio en el agua y luego póngalo sobre la superficie pulida. Empiece a molerlo con una moción en círculo como se muestra en la ilustración. Después el borde será suave y plano. Otra vez, pula el borde con papel de pulir.







## ENJOY YOUR ENVIRONMENTALLY LIFE!

If you have any questions or more good ideas, please open the link and follow the steps:[www.AGPTEK.com/RMA](http://www.AGPTEK.com/RMA) .

