

# Ring Maker



PMC Connection  
8910 Mikuni Ave, Northridge CA 91324

## WHAT IS RINGMAKER?

With RINGMAKER, you can form rings easily, quickly and seamlessly out of PMC (precious metal clay).

RINGMAKER is made of acrylic and is reusable. You can make as many as copies you wish of any sized/shaped rings.

It is extremely easy to use. Once you've learned a few small tricks, you can fashion a perfect ring in no time.

The previously difficult and tiresome steps in making rings from PMC, such as smoothing out of the joint or forming a perfect circle, are no longer required with RINGMAKER.

There are two types of sets; one for half-round (the ring surface is round) rings and the other for flat (the surface is flat) rings. Both types come in four different mold sizes, which are 17, 21, 25 and 29.

\*Please keep in mind the sizes on RINGMAKERs are Japanese sizes.

You can make your own ring very easily with RING MAKER  
Even if you have never done this before, you can easily fashion a  
seamless, beautifully molded ring out of clay in about 2 minutes.  
Ringmaker lets you be creative with your own designs!!



### Round Type

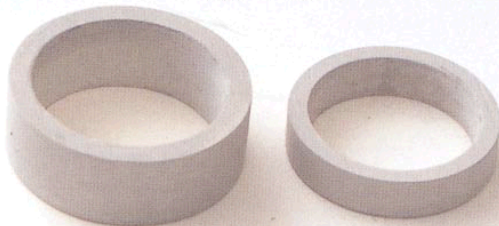


Pre-fire ---> Fired

\* Round Type available by special order.



### Flat Type



Pre-fire ---> Fired

## About RINGMAKER Flat Ring Set

There are three different ring widths; 5mm, 8mm and 12mm available for the Flat Ring Set. Each basic set includes a part we call "joint" which sets the ring thickness to 2.0mm.

## Ring Maker Conversion Chart

RINGMAKER Japanese sizes	U.S. Size as Molded(unfired)	U.S. Size Range (after firing)
17	8	4 ½ to 6
21	9 ¾	6 to 7 ½
25	11 ¼	7 ¾ to 9
29	13	9 ¼ to 10 ½

\*Please keep in mind that the sizes on RINGMAKERS are Japanese sizes.

This table is based on a using PMC3 and firing in an electric kiln at 900 degrees Celsius (1652°F) for 10 minutes.

Different clay, firing device, temperature and/or firing time may produce different results than this table. We recommend firing with shrinkage stopper\* in order to precisely control clay shrinkage.

Estimation of Amount of Clay Needed (When Using PMC3)  
 Because with RINGMAKER, a ring is molded out of a lump of clay, you will need a bit more clay in the beginning than the actual ring volume. Let the following chart help you in the preparation of clay.  
 As you get more used to using RINGMAKER, you will need less beginning amount. The ring volume may slightly change depending on how you apply the pressure.

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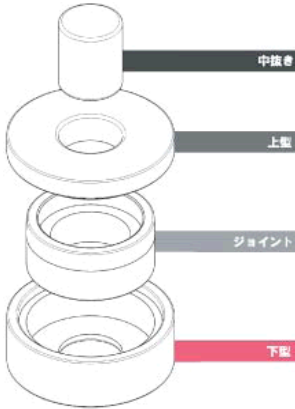
Flat Ring 5mm-wide	Beginning Amount (grams)	Actual Ring Volume (grams)
1.5mm-thick Size 17	7.5	2.9
2.0mm-thick Size 17	9.5	3.1
2.5mm-thick Size 17	10.5	5.4
3.5mm-thick Size 17	13	7.7
1.5mm-thick Size 21	10.5	3
2.0mm-thick Size 21	11.5	4.1
2.5mm-thick Size 21	12.5	5.5
3.5mm-thick Size 21	15.5	8.4
1.5mm-thick Size 25	11.5	3.4
2.0mm-thick Size 25	12.5	4.3
2.5mm-thick Size 25	14.5	5.9
3.5mm-thick Size 25	17	8.7
1.5mm-thick Size 29	13	3.5
2.0mm-thick Size 29	15.5	4.7
2.5mm-thick Size 29	16	6.1
3.5mm-thick Size 29	18	9.4

Flat Ring 8mm-wide	Beginning Amount (grams)	Actual Ring Volume (grams)
1.5mm-thick Size 17	16	5.1
2.0mm-thick Size 17	18	6.4
2.5mm-thick Size 17	20	8
3.5mm-thick Size 17	23	11.6
1.5mm-thick Size 21	17.5	5.2
2.0mm-thick Size 21	19	6.6
2.5mm-thick Size 21	21.5	9
3.5mm-thick Size 21	25	12.4
1.5mm-thick Size 25	19.5	5.7
2.0mm-thick Size 25	21	7.4
2.5mm-thick Size 25	22	9.3
3.5mm-thick Size 25	26	13.4
1.5mm-thick Size 29	21	5.8
2.0mm-thick Size 29	22	7.6
2.5mm-thick Size 29	23	9.6
3.5mm-thick Size 29	28	13.8

Flat Ring 12mm-wide	Beginning Amount (grams)	Actual Ring Volume (grams)
2.0mm-thick Size 17	18	9.8
2.5mm-thick Size 17	22	12
3.0mm-thick Size 17	25	14.8
3.5mm-thick Size 21	29	17.4
2.0mm-thick Size 21	24	10.2
2.5mm-thick Size 21	27	12.2
3.0mm-thick Size 21	31	15.4
3.5mm-thick Size 25	34	18.2
2.0mm-thick Size 25	26	10.6
2.5mm-thick Size 25	30	13.2
3.0mm-thick Size 25	32	16.4
3.5mm-thick Size 29	36	19
2.0mm-thick Size 29	28	11
2.5mm-thick Size 29	31	14
3.0mm-thick Size 29	33	17
3.5mm-thick Size 29	37	20.2

## How to Make a Flat Ring YOU NEED:

RINGMAKER, PMC, oil, plastic wrap, sandpaper(s), file(s), and/or sanding sponge(s)



01.



In order to keep the clay from sticking to RINGMAKER, coat the inside of upper/base parts and the middle block with a thin layer of oil. Place a joint of chosen thickness inside the base mold.

02.



Take a small piece of clay out of the package and within one minute, form into a seamless ball using a plastic plate etc.

03.



Put the ball in the joint.

04.



Close with the upper part and hold the mold vertically. With both index fingers push in clay from the center hole into the ring-shaped gap.

05.



Make sure that the clay is spread to all corners. If you see any spot where the clay is not reached, push further to eliminate the spot.

06.



Push down the middle block in the center hole and hold the mold so that the hole in the base faces you.

07.



When the inserted middle block touches the clay, start applying pressure from the other hole as well. Continue applying pressure from both sides until the middle block is completely inserted. This is the trick! By applying pressure from both sides at the same time, the ring is formed more perfectly.

08.



Collect the extra clay removed by the middle block, push down the middle block all the way and remove it from the mold.

09.



Remove the upper part by slowly turning it. Do the same with the joint. Leave the clay in the joint to dry. You can either just let it stand for awhile or use a hair dryer on a cool setting. Never use the dryer on a warm setting! It can deform the acrylic RINGMAKER.

10.



After the clay is somewhat dry, take it out of the joint and let it stand to dry completely.

11.



Smooth the surface of the completely dried clay with sanding papers, files and/or sanding sponges.

12.



Now you have the finished dry form! If you fire this now you will have a simple flat ring. You can use this "base" ring to make many different designs. The possibilities are infinite.. We recommend using a [ring shrinkage stopper](#) to control the shrinkage.

## Common Problems &amp; Solutions



Q. Removing the upper part, I found the upper edge of the ring missing or low-hanging..

A. You can prevent this by making sure to apply pressure from both sides until the middle block is completely inserted (STEP 07).

Remember, pressure from both sides of the middle block at all times until it is inserted all the way..



Q. I got wrinkles/cracks in my ring..

A. It is likely that when you first rolled the clay into a ball there were some wrinkles, or the clay was too dry. If the wrinkle/crack is small enough, you can sand it off or, rub some clay into it after wetting the surface.



Q. My ring is burred..

A. By firmly keeping the mold together with one hand at STEP 04, you can almost completely eliminate burrs. If you still get them, you can remove them by hand, no problem.

### Various RINGMAKER Applications

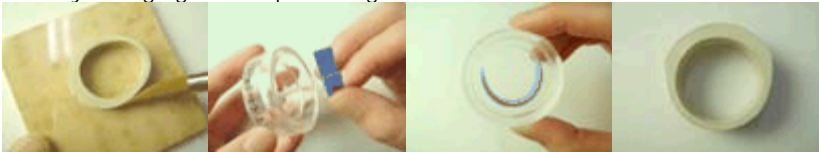
#### Bending a flat ring while still in a clay form



Placing a silicon sheet inside the joint will make it easy to take the clay out of the joint.

(RINGMAKER flat ring set is used in this example.)

#### Directly changing the shape of ring



If you'd like to have an uneven thickness around the ring for example, inserting silicon sheets where it needs to be thinner can achieve this effect. (RINGMAKER flat ring set is used in this example.)

#### Using a silicone mold



By making a silicone mold of another ring beforehand and setting it inside the joint, you can reproduce the ring in one go. (RINGMAKER flat ring set is used in this example.)

#### Any Surface texture can be combined with RINGMAKER



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With RINGMAKER flat ring set, you can make all-over textured rings just by inserting a sheet with any interesting texture (Japanese/embossed papers, sanding papers, etc., etc.) inside of the joint.

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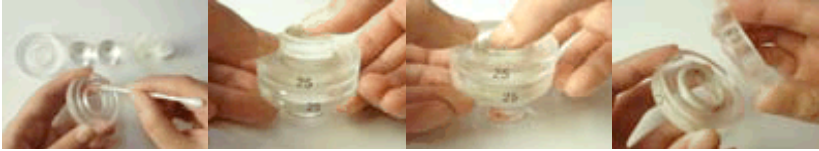
Using fast-drying silicone putty to copy texture



Spread the putty evenly over a cantaloupe, and you have your own cantaloupe ring!  
(RINGMAKER flat ring set is used in this example.)

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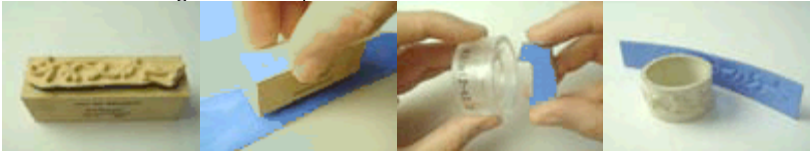
If you happen to have two middle blocks of the same size...



If you have two middle blocks of the same size, you can sandwich a piece of clay with them and quickly hollow it out.  
(RINGMAKER flat ring set is used.)

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Instant relief ring with stamp & silicone mold



By stamping on the silicone mold, you can make a quick relief ring. (The concave on the mold will be convex on your ring.)  
(RINGMAKER flat ring set is used.)

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Simple Ring with Simulated Gem



With a synthetic stone

Flower Head Ring



With flower motif

Ring with Beads



insert jump rings in the ring and fire it!

Bow Ring



With bow motif

Carving on Side Face



a thicker ring can be carved on the side face

Triple Oxidized Silver Ring



textured by hammering after fire

Carved Ring (Plant Motif)



free-hand carving

Wave Ring



finishing up by filing makes the shape more fluid

Mosaic Ring



very thin sheets of PMC are pasted like mosaic

Stone-Dotted Ring



multiple synthetic stones

Texturing with Pasty Clay



banding pattern with paste-like silver clay

Carved Heavy Ring



find an order in design to carve efficiently

Melon Ring



texture of cantaloupe skin

Texturing by Sanding Paper



with RINGMAKER, texturing is easier than ever

Floral Cross Ring



a copy of Chrome Heart's famous floral cross design

Ring with Charms



attach your favorite charms (jump ring is used)

Ring with Beads 2



double, triple rings take no time with RINGMAKER

Hammer-Textured Ring 1



we gave the hammer an original texture

Coral Ring + K22 Paste



copy natural texture  
using quick silicone sheet

6 Rings



wear them however you  
like it

Faceted Ring with Line  
Carving



carved with V-shaped  
gouge

Open Heart Pendant Head



a seamless open-heart is  
possible with RINGMAKER!

Relief Ring by Stamping



make a relief ring with a  
stamp, silicone mold and  
RINGMAKER

Coral Ring Black



copy natural texture  
using quick silicone  
sheet

Button Textured Ring



various buttons, various  
textures.

u-shape Half Round Ring



motif in between the two  
rings

Oval Moon Earrings



simply warp flat rings  
while the clay is soft

Coral Ring White



copy natural texture  
using quick silicone sheet

Bead Pendant



size 29 will make a  
perfect pendant top

Hammer-Textured Ring 2



we gave the hammer an  
original texture

Disc Ring



pasting cut-out discs  
makes this ring

Double Half Round Ring



for a more lux look..

Contrast Ring 2



patterned by mirror  
surface/oxidization

Contrast Ring



the pattern is created by  
different surface  
finishing

Shinogi-Mon Ring



hold your breath while  
carving the pattern!

Filed Ring



finished with a coarse  
file