



GM151 Mini Scrap Master
3.5" t. x 4.5" w. x 7" l.



LF124 Two Heart Cast-a-Cab
Castings 1.75" x 2" Mold 3.25" x 5.75"



LF125 Two Circle Cast-a-Cab
Castings 2" dia. Mold 3.25" x 5.5"



LF126 Two Square Cast-a-Cab
Castings 1.5" square Mold 3" x 5.25"



LF127 Two Tear Cast-a-Cab
Castings 1.25" x 3" Mold 3.25" x 5.5"

The Mini Scrap Master, Multi-Cast Scrap Master and the corresponding Cast-a-Cab molds were designed to make the most of even the smallest pieces of scrap glass.

-- The conical self-elevated melting pot area allows for maximum glass evacuation and eliminates the need for added kiln furniture.

To use the Mini Scrap Master as a self-elevated melting pot with Cast-a-Cab molds, in a well ventilated area thoroughly spray the molds (LF124-LF130) with MR97/ZYP glass separator spray. Several light coats with a short waiting period between coats is preferable to one heavy coat. Shake the can well before use and hold the can upright while using to assure proper distribution of product. It is important to turn the mold to make sure you coat the mold cavity at all angles. [Click here for a tutorial on applying the ZYP.](#) Shake the can well before use and hold the can upright and rotate the mold to cover the bottom and the entire mold cavity wall. For best results, do not spray MR97/ZYP in the melting pots of the Scrap Master melting pots. Complete coverage is essential (over-coverage is better than under). Place the mold on a level kiln shelf in a kiln.

Each Cast-a-Cab mold has a recommended weight range of glass to place in each melting pot of the Mini Scrap Master to create a glass casting that fills the mold but does not overflow the mold:

- LF124 Hearts = 37 g /heart,
- LF125 Circles = 39 g /circle,
- LF126 Squares = 34 g/square,
- LF127 Tears = 42 g /tear
- LF128 Holey Tears = 32 g /tear,
- LF129 Holey Trilliant = 31 g /trilliant,
- LF130 Holey Circles = 43 g /circle,

Weigh the compatible, fusible scrap on a gram/ounce scale and then add the glass to the melting pot of the Mini Scrap Master. Use a mosaic nipper to cut the pieces to fit all of the glass in the melting pot Do not allow glass to hang over the side of the melting pot cavity.

Both opaque and transparent glass can be used in any combination but it is important that the glass all be of the same COE. The firing schedule works for both COE 90 and 96. For the best results, use a minimum of 25 g of clear fusible, compatible glass as



GM158 Multi-Cast Scrap Master
11" x 7" x 3.5"



LF129 Holey Trilliant Cast-a-Cab
Castings 1.75" x 1.75" Mold 3.5" x 5.5"



LF130 Holey Circles Cast-a-Cab
Castings 2" dia. Mold 3.25" x 5.5"



LF128 Holey Tears Cast-a-Cab
Castings 1.75" x 2.25" Mold 3.25" x 5.5"

part of the total weight of glass to be melted. Black and very dark colors, both opaque and transparent, will spread and dominate if added in portions larger than a

Mini Scrap Master melting schedule*			
Segment	rate	temp	hold
1	450	1640*	75 minutes
2	9999	1500	30 minutes
3	9999	960	90 minutes
4	100	825	10 minutes

*If you suspect that your kiln runs hotter than it reads, reduce the temp in segment one to 1620

fraction of an ounce. To use the GM151 Mini Scrap Master with two melting pots, place the filled Mini Scrap Master over the Cast-a-Cab mold on the level kiln shelf. The opening in the bottom of the Mini Scrap Master will fit over the Cast-a-Cab mold in a way that will line up the holes in the bottom of the melting pots of the Mini Scrap Master directly over the cavity of the Cast-a-Cab mold. Fire the project using the firing schedule found in the table at left. This firing schedule has been altered from previously released firing schedule for the original Cast-a-Cab molds; the hold time in segment 1 was extended by 15 minutes to allow the glass



to migrate around the ceramic posts in the NEW Holey Cast-a-Cabs. Also, the temp in segment 1 was reduced because many kilns read a lower temperature than they fire. It is better to under fire the project than to over fire. The glass separator begins to break down at temperatures over 1660. You may find that the glass did not completely cast from the melting pot at 1640 in your kiln. Time can be added to the hold (15 minute increments) or temperature can be added (5 degree increments) to adjust the schedule for your kiln. After the kiln has returned to room temperature, open the kiln and lift the Mini Scrap Master to find beautiful cabochons that are reminiscent of cabochons made using "hot glass" techniques! Many colors of glass will shift during the process. Some colors will react with other colors to create new shades. Be prepared for unexpected surprises! Some glass will remain in the melting pot after firing and will be part of the next project. Use E6000 to attach bails to the cabochons or string cords through the holes in the Holey to create stunning artistic pendants



Metal bails and chains/cords added



New Holey Cast-A-Cabs!!





Image 1

To use the NEW GM158 Multi-Cast Scrap Master

The following procedure should help to line up the NEW GM158 Multi-Cast Scrap Master over Cast-a-Cab molds (Cast-a-Cab molds treated with MR97 as indicated previously in this tutorial). Place the GM158 on the kiln shelf. Trace around it on the kiln shelf (Image 1).

New!
GM158
Multicast

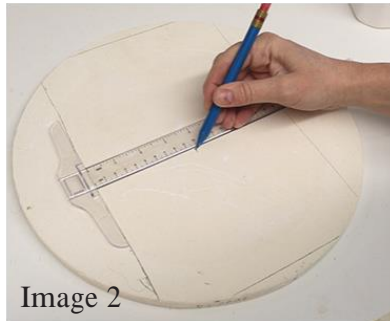


Image 2

The dimensions of the base of the GM158 are 19.5 cm x 30 cm. Find the center by making a mark at 9.75 cm down from the long side (Image 2) into the center of the outline and 15.25 cm down from the short side into the center of the outline. (Image 3 and 4)



Image 3

Find the center of one of the Cast-a-Cab molds that will be placed under the center melting pot of the GM158. For example, the center of the LF127 Cast-a-Cab can be found at 6.8 cm (Image 5) down the length of the LF127 and 4 cm down the width of the LF127 (Image 6). Mark the center on that mold. Place the center of that Cast-a-Cab on the drawn center of the outline of the GM158 (Image 7). Place the remaining two Cast-a-Cab against the sides of the centered Cast-a-Cab (Image 8). Visually inspect the placement of the left and right Cast-a-Cabs to make sure that they are lined up relatively centered with the middle Cast-a-Cab (some Cast-a-Cabs are slightly longer than others so lining them up with one edge on a straight line will not work).



Image 4

Place the GM158 over the Cast-a-Cabs. A recommended weight to place in the melting pots is given again below:

- LF124 Hearts = 37 g /heart,
- LF125 Circles = 39 g /circle,
- LF126 Squares = 34 g/square,
- LF127 Tears = 42 g /tear
- LF128 Holey Tears = 32 g /tear,
- LF129 Holey Trilliant = 31 g /trilliant,
- LF130 Holey Circles = 43 g /circle,

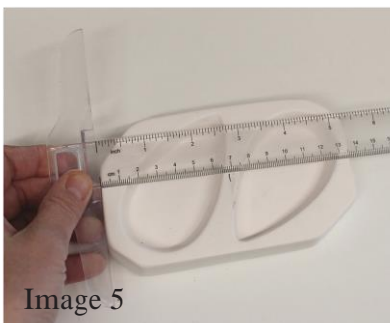


Image 5

To help you to remember which melting pot will be over which Cast-a-Cab, mark an X with pencil on the Cast-a-Cab cavity found at the lower left and one on the melt pot that you intend to place over the cavity. Now fill the melt pots with the recommended weight of compatible scrap glass corresponding to the Cast-a-Cab that will be below. You may find it helpful to write the weights with pencil by each melt pot (Image 9). Place the filled GM158 over the Cast-a-Cabs using the pencil outline and the "X" as guides. Fire* using the Mini Scrap Master Melting Schedule given on page 2 of this tutorial.

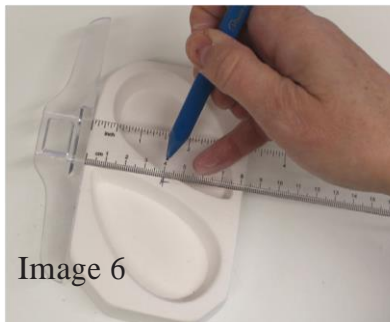


Image 6

[*Before you fire in your kiln please click here to read our important firing notes.](#)



Image 7

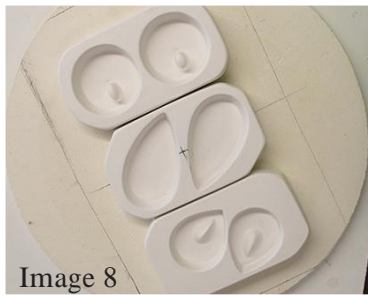


Image 8

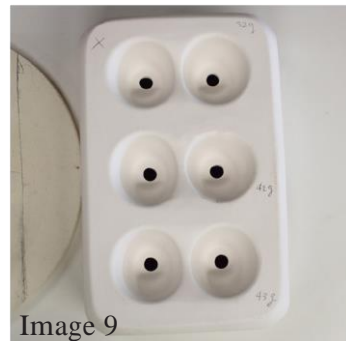


Image 9

Additonal Notes from Stephanie O'Toole:

Two very important things need to happen to make the Scrap Master projects work. The kiln chamber needs to not run over 1665 degrees and the glass separator MUST be Zyp/MR97 BN spray (or brushable) applied liberally. 50% of the reports I get of glass sticking in the molds are due to kilns that run a hotter temperature than they actually read (you plug in 1640, the kiln runs 1670 for example). Its important to know how hot your kiln really runs by doing some basic firing tests. The other 50% of the reports of glass sticking are due to any other glass separator being used besides Zyp/MR97 or under application of Zyp/MR97. Please feel free to email us at creativeparadiseinc@live.com if you would like personal attention and recommendations.

[*Before you fire in your kiln please click here to read our important firing notes.](#)

Video Tutorial on applying MR97/ZYP: [Click here](#)