

Kosy Creations Catalog

- ✓ Project Books
- ✓ Tools
- ✓ Tool Sets
- ✓ Supplies
- ✓ Pictures of Finished Projects



Kosy Creations provides tools, supplies, and project books that picture in step-by-step detail how to make hundreds of useable and saleable metal projects.

Kosy Creations has been utilized with great success by over 6,000 educational welding programs and by thousands of individuals throughout the United States and Canada.



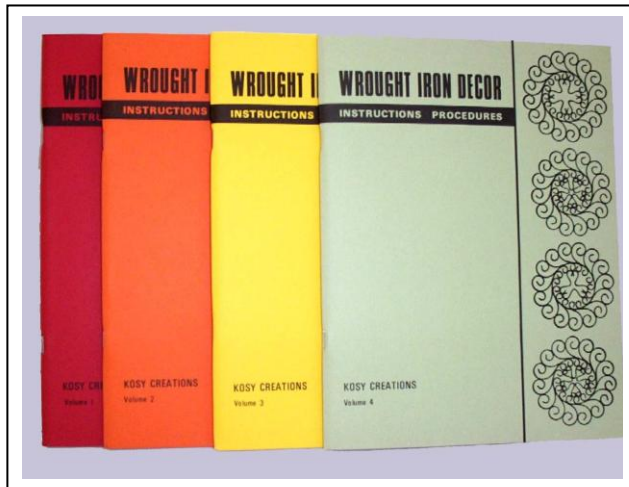
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www.metalcraftusa.com website

Picture of our facility located in Rochester MN.



- **Kosy Volume 1 Book** describes all the basic operations. This book also contains 10 projects fully illustrated with step by step directions. (red book, 68 pages)
- **Kosy Volume 2 Book** contains 28 projects fully illustrated with step by step directions. (75 pages)
- **Kosy Volume 3 Book** contains 30 projects fully illustrated with step by step directions. (77 pages)
- **Kosy Volume 4 Book** contains 20 projects fully illustrated with step by step directions. (71 pages)

Examples of items made with step by step instructions/photos throughout the 4 books



Candy Baskets



Napkin Holders



Fruit bowls



Candlesticks



Mug Hooks

(many patterns can be created. From 1 mug hook to 100. 7 piece design shown here.)



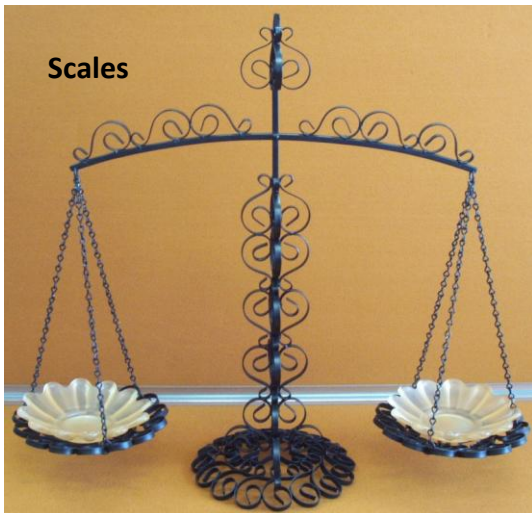
Table Lamps & other lighting



Baskets



Candelabras

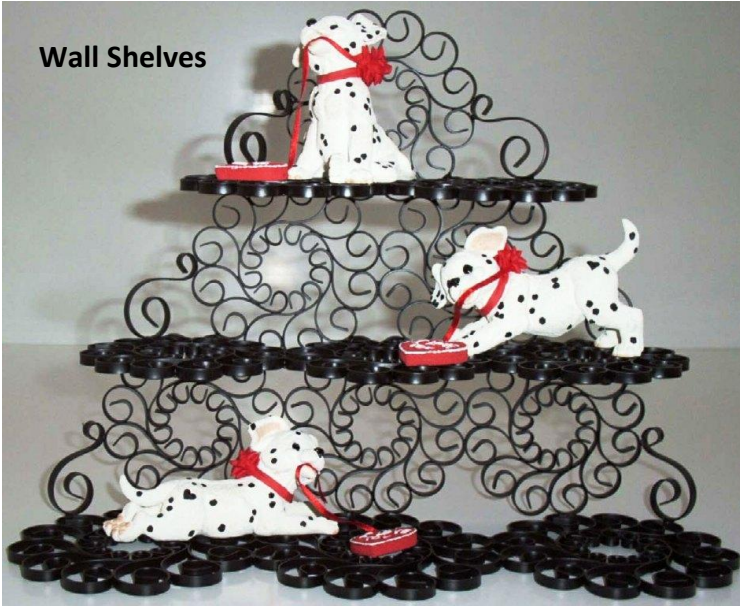


Scales



Lazy Susan

Wall Shelves



The books also contain step by step instructions/photos for:

- **Wall Sconces**
- **Candle Holders**
- **Letters / Numbers**
- **Trivets**
- **Music Notes**

88 projects overall in the 4 books

BUT

the creations don't stop there.
Change one of the designs shown
in the books **or** create your own as
the photos below show.





BJ1 Scroll Bending Jig.

Used in some Kosy Creations projects.
Metal capacity: 1/8" solid round rod or welding rod.



BJ2 Scroll Bending Jig Set.

Used in many Kosy Creations projects. Metal capacity:
Main scroll produced uses 1/4"w x 5 1/2" long strip of metal (MS5 Kosy Metal) to produce a #12s scroll.

Also used with 1/4", 3/8", or 1/2"w x 7" long strips of metal (MS7, MS71, or MS72 Kosy Metal) to produce a #10 scroll.

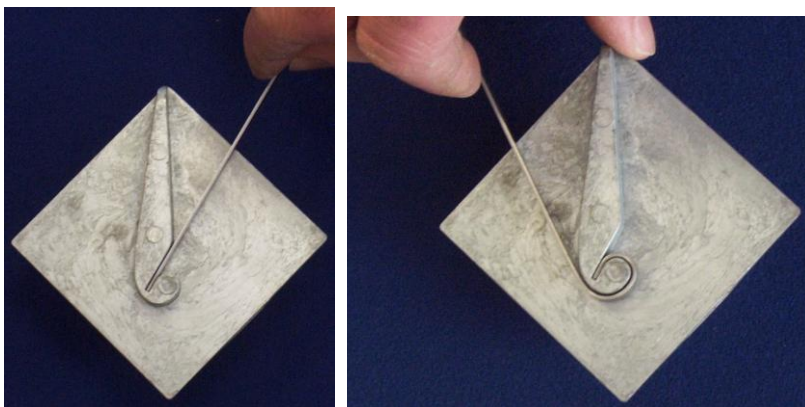


BJ3 Scroll Bending Jig Set.

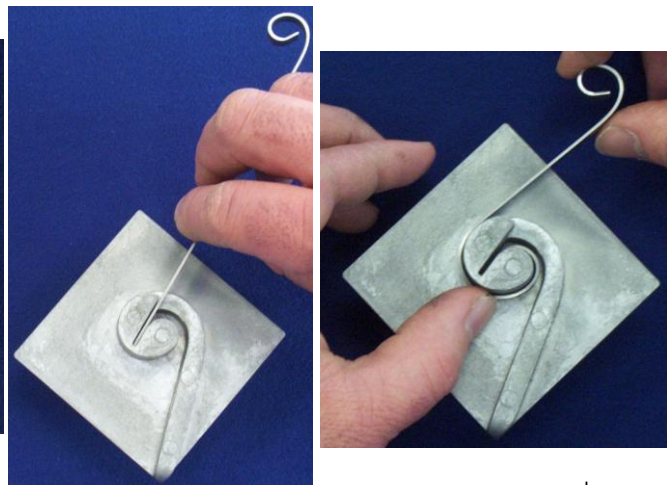
Used in many Kosy Creations projects. Metal capacity:
Main scroll produced uses 1/4"w x 7" long strip of metal (MS7 Kosy Metal) to produce a #12L scroll.

Also used with 3/8"w (MS71), or 1/2"w (MS72 Kosy Metal) x 7" long strips of metal to produce a #12L scroll **AND** with 1/4"w x 5 1/2" long strip of metal (MS5 Kosy Metal) to produce a #8 scroll.

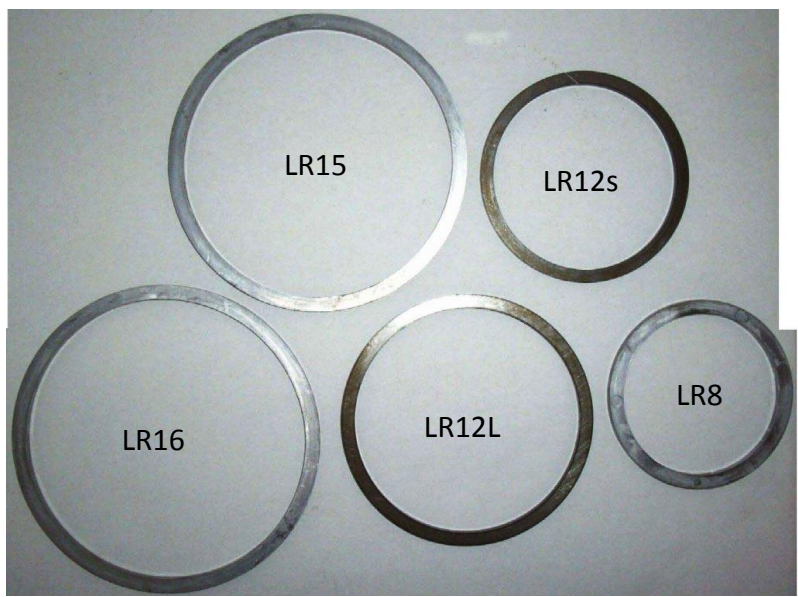
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Small end of the scroll made 1st.



Large end of the scroll made 2nd.



Locking Rings:

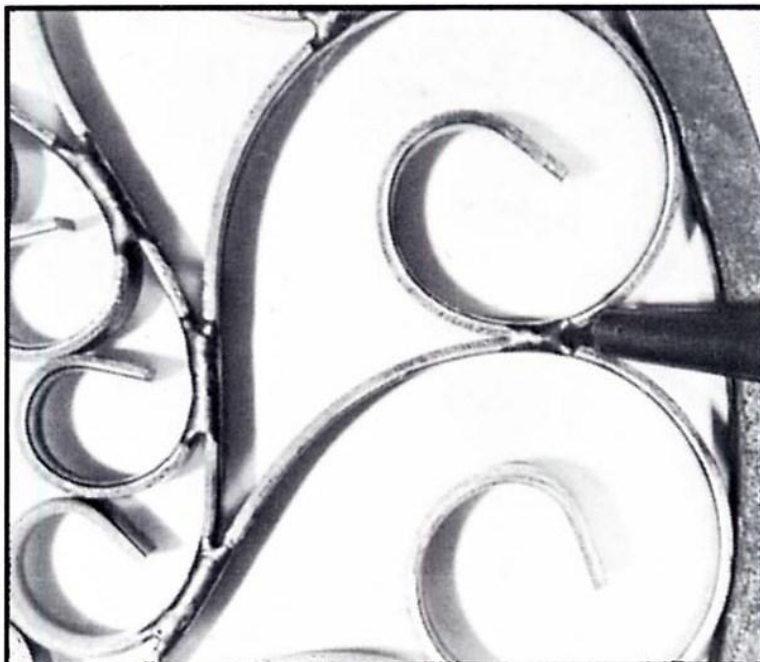
- LR8 Inside dia. 4 1/8"
- LR12s Inside dia. 4 3/4"
- LR12L Inside dia. 5 3/4"
- LR15 Inside dia. 6 7/8"
- LR16 Inside dia. 7 1/4"

Locking Rings are used to hold the Kosy scrolls together while welding. Oxyacetylene welding is the type of welding recommended (basically melting the metal together where they join)

LR12L Locking Ring half filled with scrolls



LR12L Locking Ring filled with scrolls



Scrolls shown welded up. All the center welds are done 1st and then the larger ends of the scrolls are welded.

HINT: Use a 1" x 1/8" x 12" piece of flat strip metal to hold down the scrolls while welding. This will ensure a flat ring section when welding is completed.

HINT: Using the **TT1 Welding Turntable** (shown on next page) makes the welding faster as you spin the turntable to go from one completed weld to the next scrolls to be welded **VERSUS** manually moving the whole ring section.



TT1 WELDING TURNTABLE

Handy for welding up ring sections. Bearing will not freeze up when hot. Table spins so ring sections do not have to be moved while welding. 8 3/16" dia.



Top view of the TT1 Welding Turntable. Shown here with a locking ring filled with scrolls ready for welding.

This photo shows the TT1 Welding Turntable from a side view. Base and top visible with the bearing located inside the base. Locking Ring filled with scrolls is pictured here on the TT1 top.



Ring section shown welded up.

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DDD Deep Dishing Die Set 6 1/8" dia.

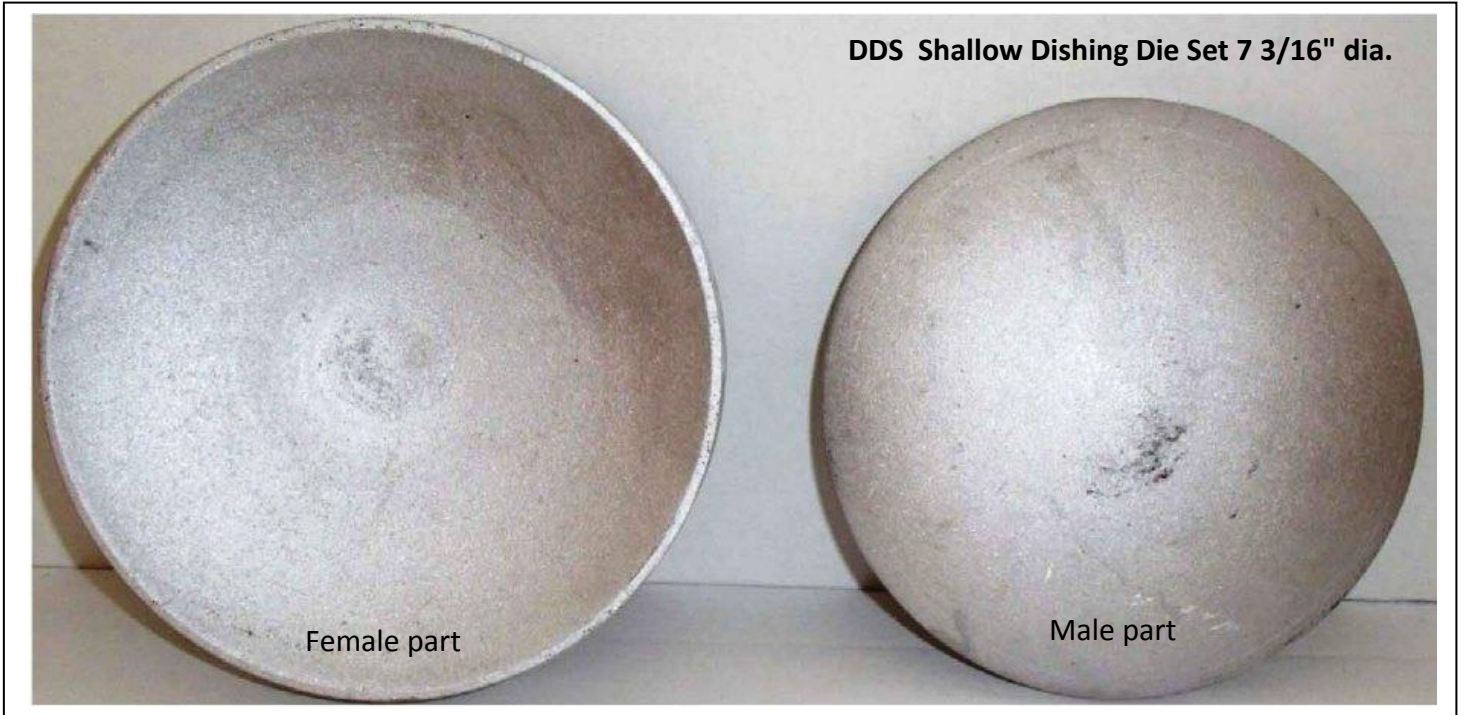
Female part

Male part

Dishing Dies are used to obtain curvature of the ring sections. Ring sections are dished to obtain the different diameters needed for various shapes of bowls and other projects.

More photos and descriptions of what the dishing die sets do are on the next page.

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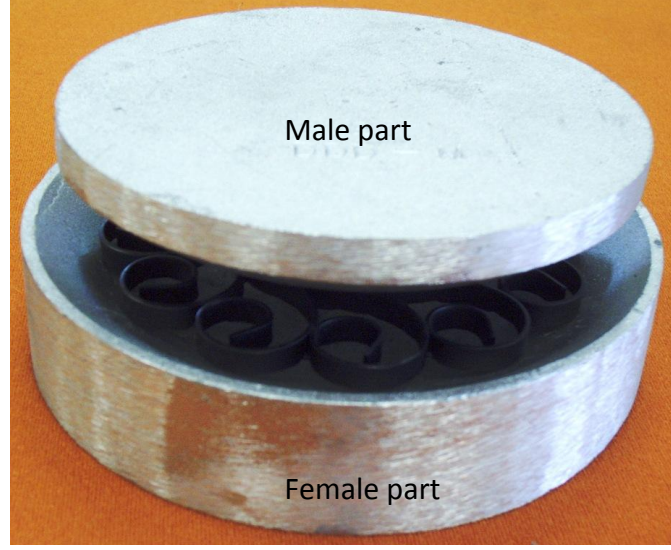
DDS Shallow Dishing Die Set 7 3/16" dia.

Female part

Male part



Female part

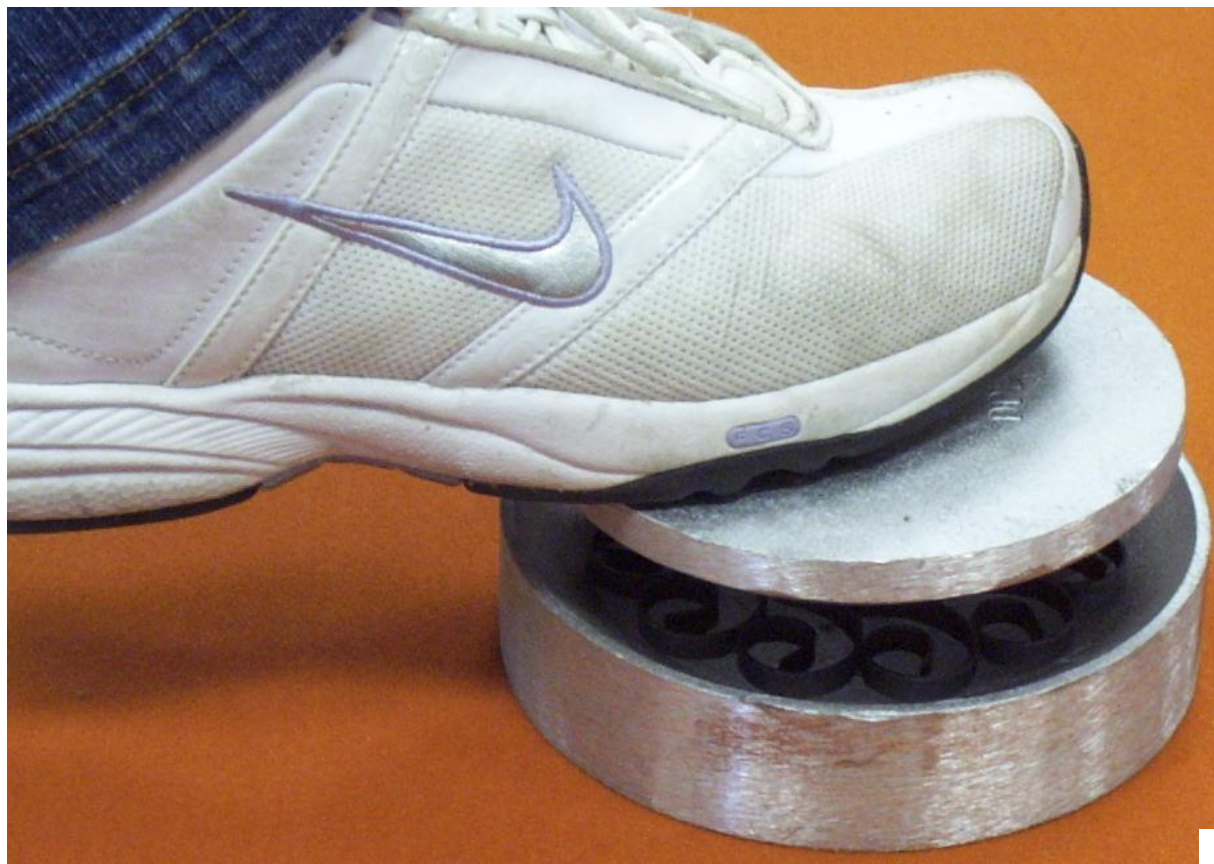


Male part

Female part

Flat welded up ring section placed in DDD Deep Dishing Die – female part. The welded side of the ring section may face up when placed in the die set or the welds may be face downward (as pictured here) depending on the project.

After placing flat welded up ring section in the DDD Deep Dishing Die female part, place the male part of the dishing set on top of the flat welded up ring section.

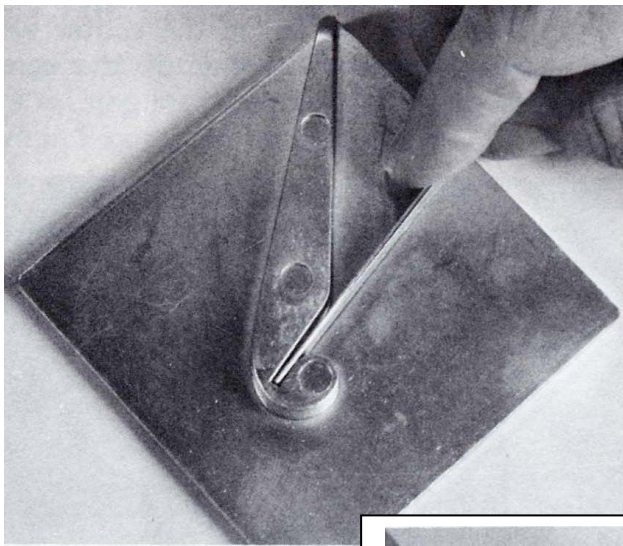


Next – STEP ON IT! We have found this a quick and easy way to achieve the curvature. Finish it by taking off the male part of the die and then using a small mallet, pound the ring section down evenly.





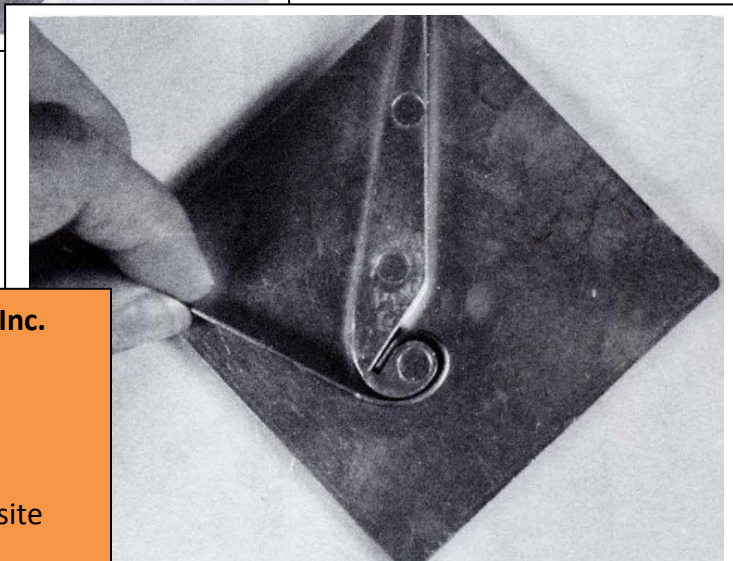
A scroll ring section after being dished.



Remainder of this page plus next 2 pages show how a piece of 1/4" solid round rod (held in vise) is used to wrap shorter pieces of flat metal strip around the round rod. This is done to make center pieces that are then inserted into the scroll ring centers.

Step 1: Cut 1/4" wide metal (MS5 or MS7 Kosy metal) to 3 3/4" in length.

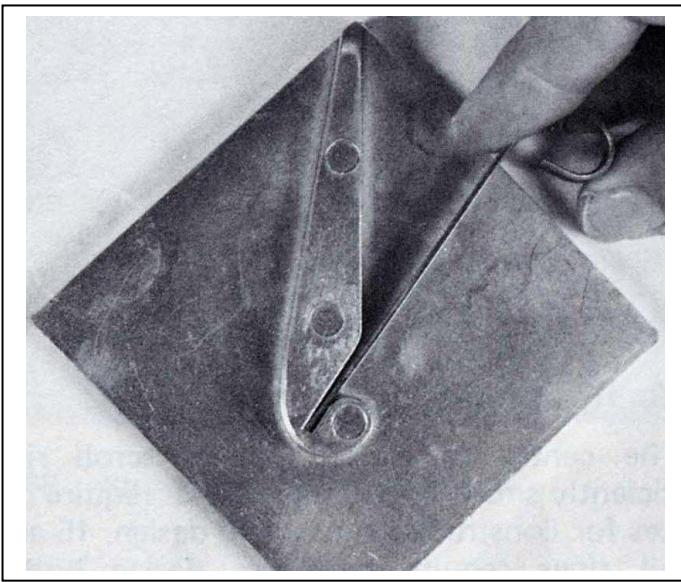
Step 2: Insert metal into BJ3s Scroll Bender and bend to 270 degrees.



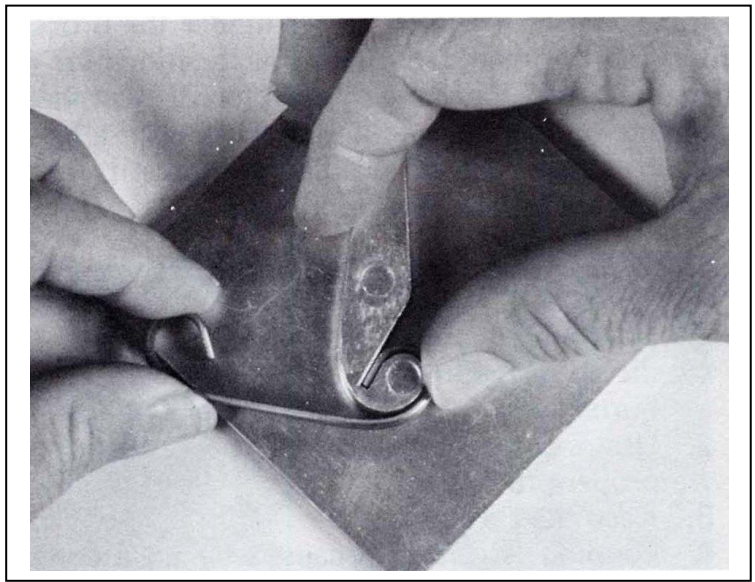
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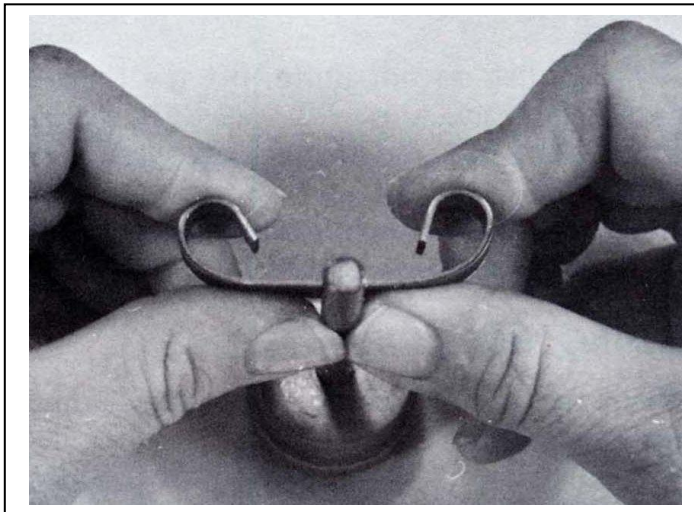
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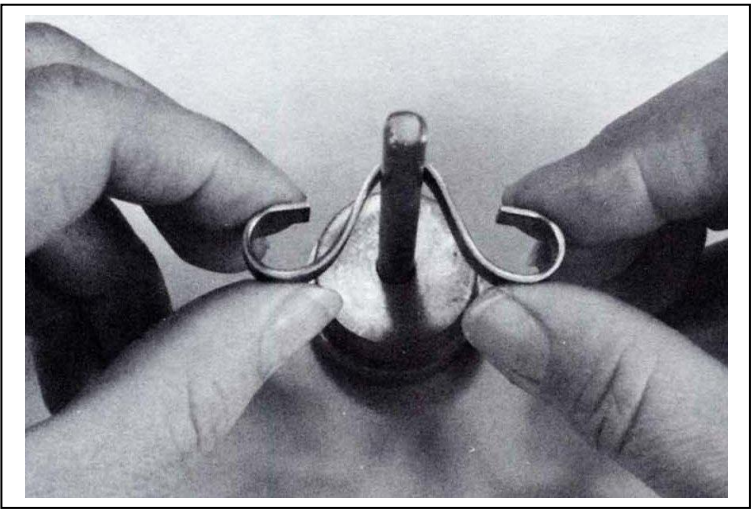
Step 3: Opposite end of metal is inserted into the bending jig BJ3s.



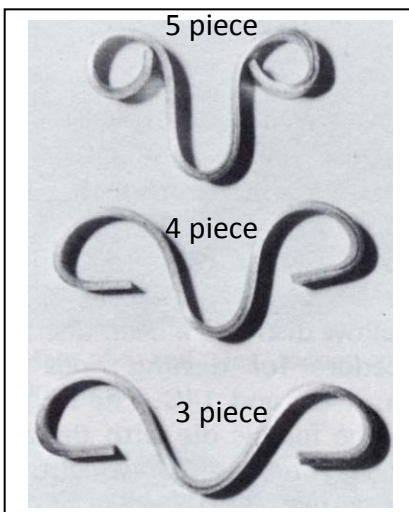
Step 4: Bend the metal to the same 270 degrees as done in step 2. This will give you identical bends on both ends of the metal strip.



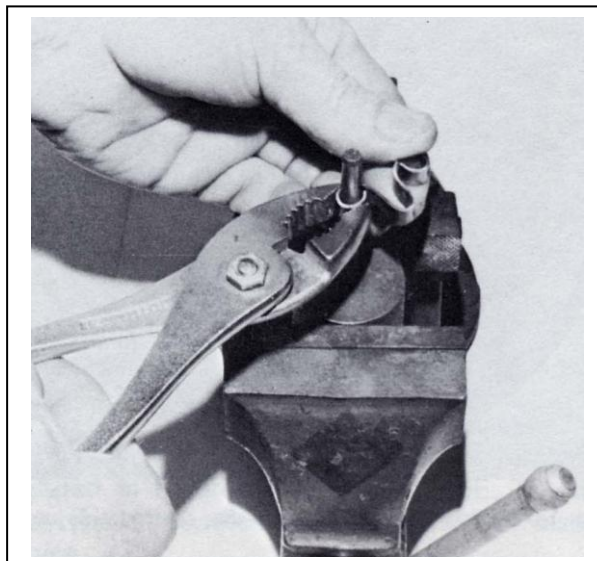
Step 5: Center of piece is then bent around 1/4" solid round rod held in a vise.



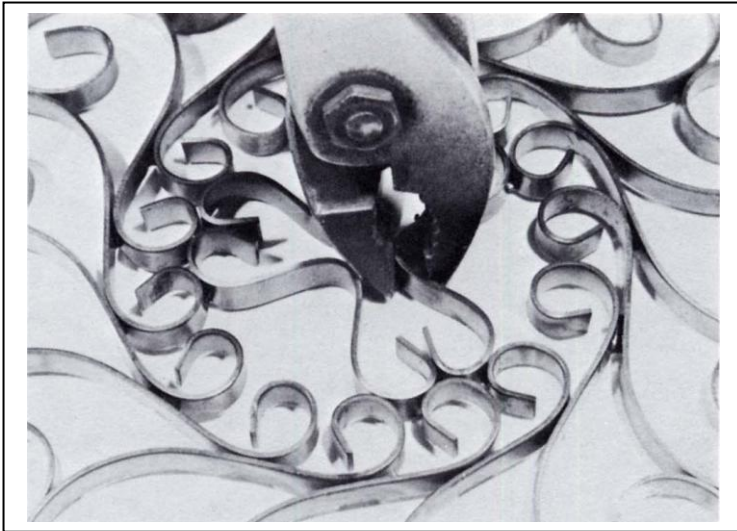
Step 6: Degree of bend varies, depending on whether a 3, 4, or 5 piece design is desired.



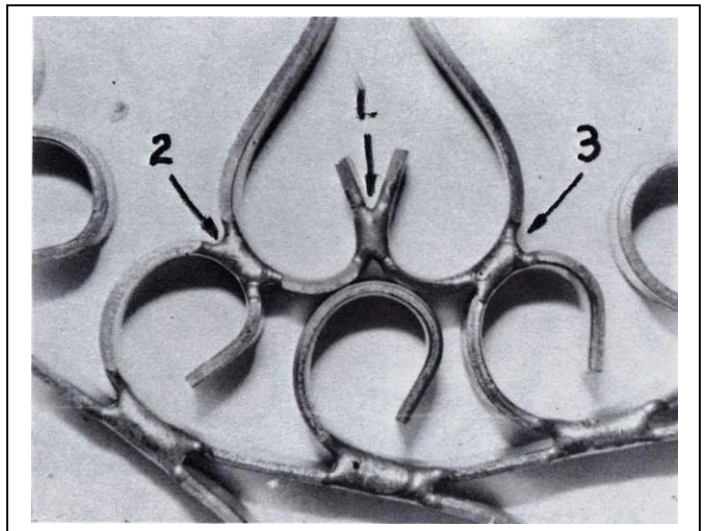
This photo illustrates a 3, 4, and 5 piece center design.



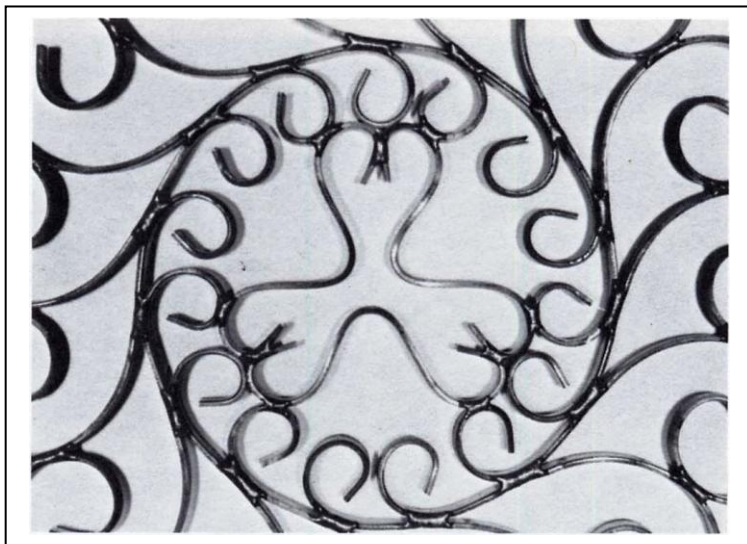
5 piece centerpiece ends are finished with pliers around the 1/4" solid rod.



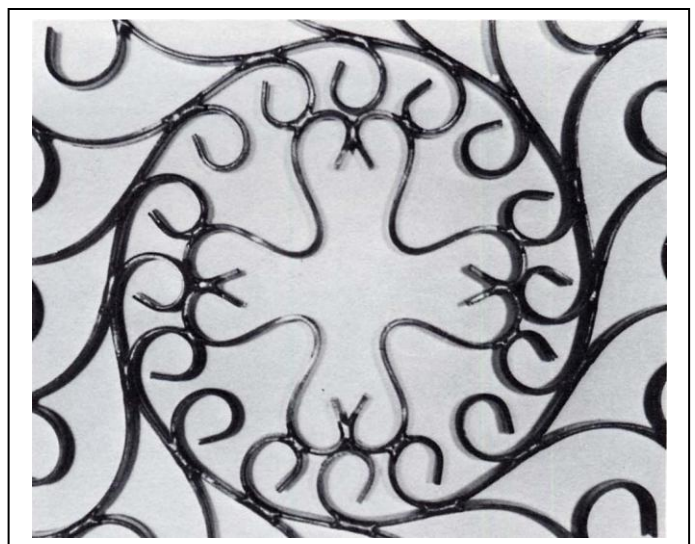
Centerpieces are locked in position with pliers.



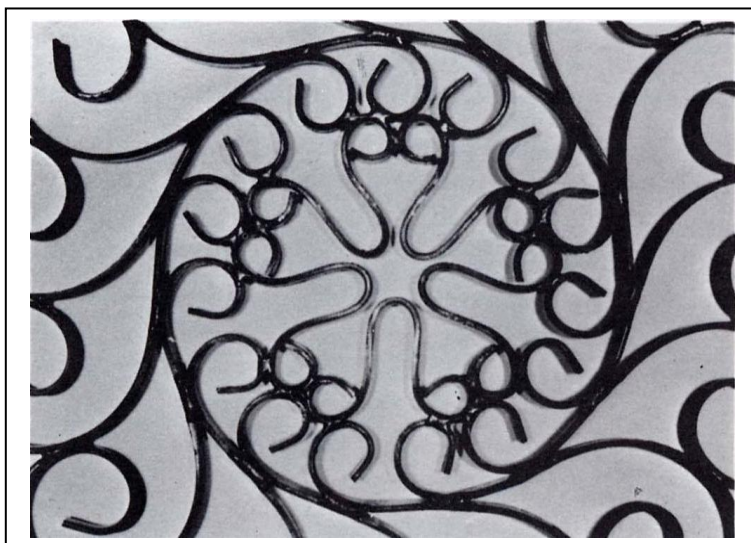
Welding order for center designs.



3 piece center design.



4 piece center design.



5 piece center design.

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FT1 Flaring Tool

Used to flare 3/4" conduit or tubing. Purchased mainly by schools as another teaching step.

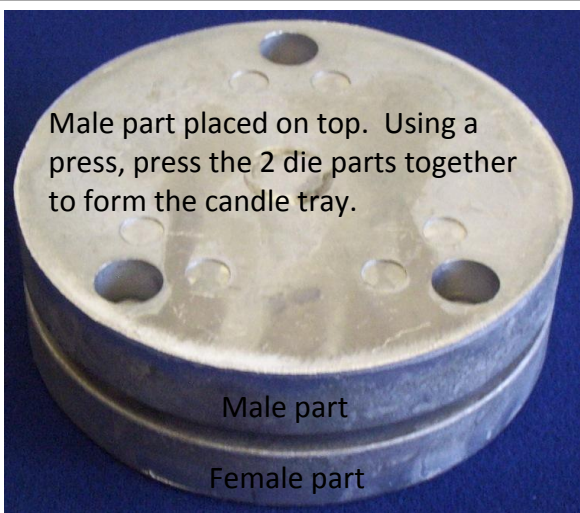
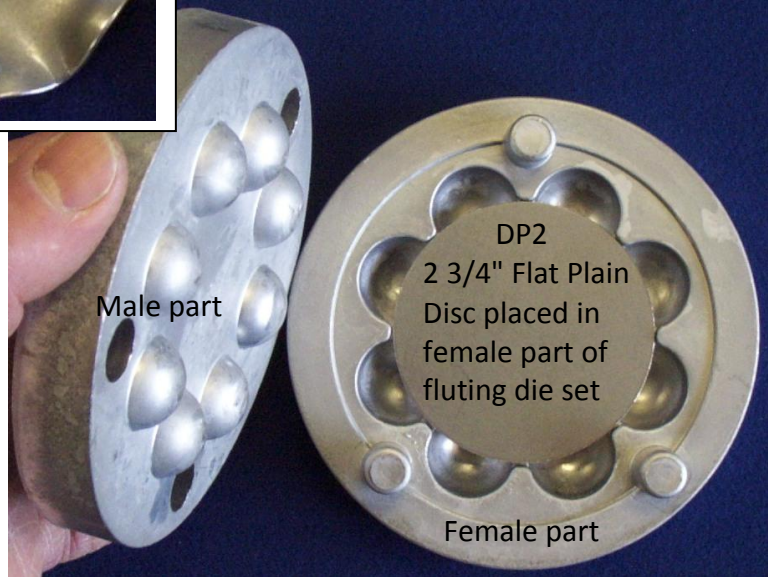
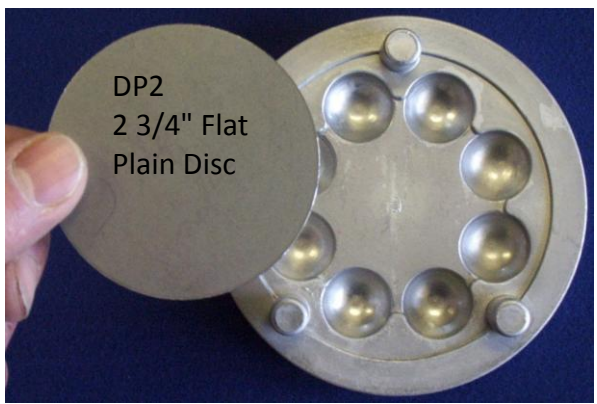


BJ5 Bending Jig

Allows one to make scrolls in hot rolled flat strip metal up to 1" wide x 1/8" thickness.



Individuals/businesses usually purchase the T7 candle tray already made up. Some teachers prefer the students make their own as another teaching step in their metal project. Below are photos on how the Fluting Die Set is used.



KOSY TOOL SET

KOSY CREATIONS TOOL SET



KOSY TOOL SET INCLUDES:

- 1 ea. Kosy Book Volumes 1, 2, 3, and 4
- 1 BJ1 Scroll Bender
- 1 BJ2 Scroll Bender Jig Set
- 1 BJ3 Scroll Bender Jig Set
- 1 BJ5 Scroll Bender
- 3 ea. LR8, LR12s, LR12L, LR15, and LR16 Locking Rings (15 rings total)
- 1 DDD Deep Dishing Die Set
- 1 DDS Shallow Dishing Die Set
- 1 TT1 Welding Turntable
- 14 lbs. Kosy metal (variety of MS5, MS7, MS71, and MS72)

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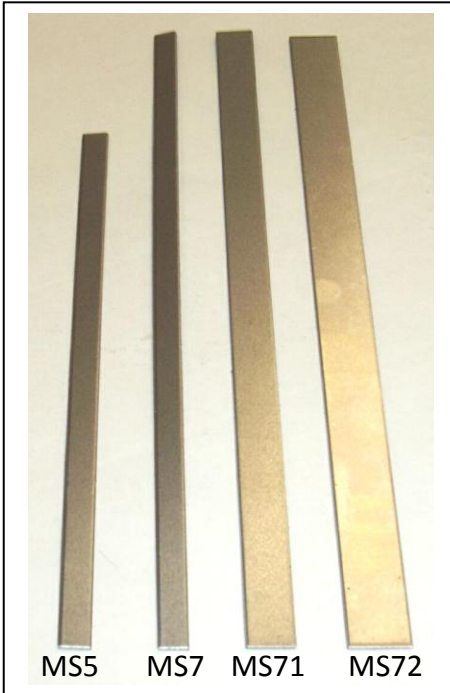
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KOSY SUPPLIES



- MS5 Metal Strip (2nd most popular size used)
1/4" wide x 5 1/2" long flat metal strip
Approx. **60** strips per lb.

- MS7 Metal Strip (most popular size used)
1/4" wide x 7" long flat metal strip
Approx. **41** strips per lb.

- MS71 Metal Strip
3/8" wide x 7" long flat metal strip
Approx. **30** strips per lb.

- MS72 Metal Strip
1/2" wide x 7" long flat metal strip
Approx. **23** strips per lb.



T7 Candle Tray

(available with or without a 1/8" hole in center) Approx. size 2 5/8" diameter



DD1 1 1/2" Dapped Disc

KOSY SUPPLIES (continued)



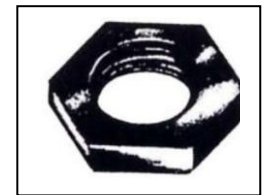
DP1 Plain Disc 1 1/2"



DP2 Plain Disc 2 3/4"



**Oval
11 Gauge
Chain.**
Sold in 3', or
additional
increments of
3 feet. For
example 6',
9', 12', 15', 18'
or more feet.



1/8 IPS Steel Locknut

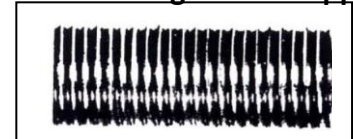


1" Female Loop



1" Male Loop

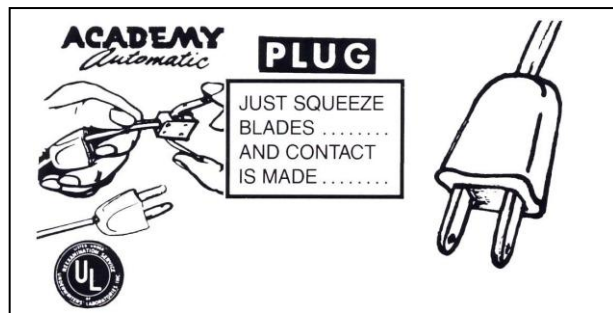
1/8 PT x 1" Running Thread Nipple



8' long 18/2 Plastic Cord Set

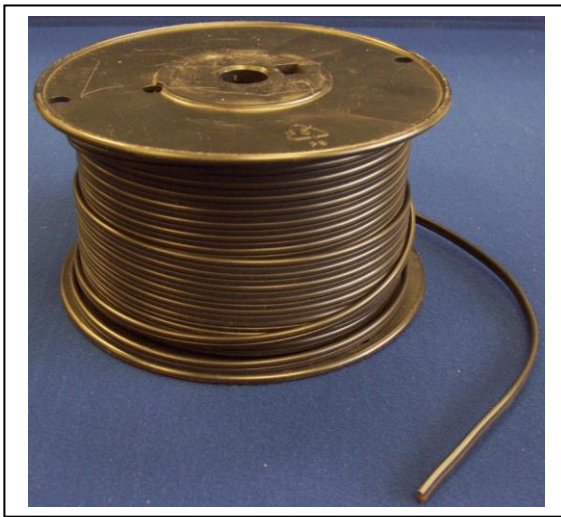


Academy Plug (White, Black, Brown)

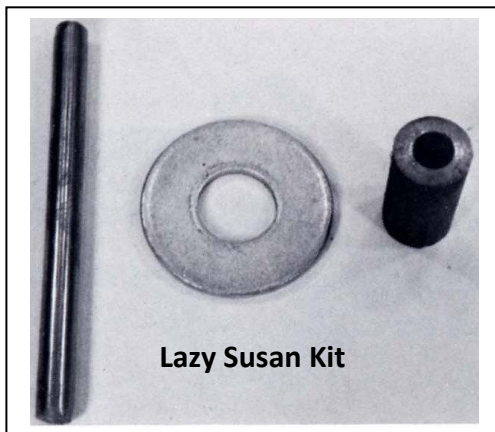


KOSY SUPPLIES (continued)

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Plastic Parallel Insulated Lamp Cord
No. 18 - Type SPT-1 105C - 300 volt U.L.
Labeled. Sold per foot.



Lazy Susan Kit

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Mug Hook Kit



BJ1, BJ2, and BJ3 Scroll Outlines (approx. size)

The **BJ1 Scroll Bender Jig** is for 1/8" solid round rod only.



The **BJ2 Scroll Bender Set** uses:

- 5 1/2" long x 1/4" wide x 18 gauge thickness flat strip metal (our MS5) OR
- 7" long x 1/4" wide x 18 gauge thickness flat strip metal (our MS7)

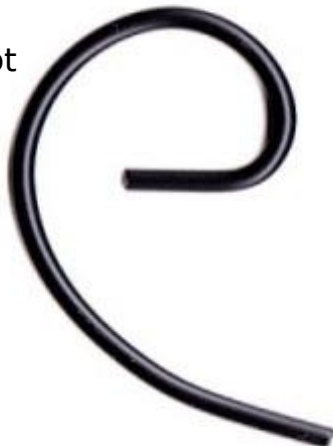
The **BJ3 Scroll Bender Set** uses:

- 7" long x 1/4" wide x 18 gauge thickness flat strip metal (our MS7) OR
- 7" long x 3/8" wide x 18 gauge thickness flat strip metal (our MS71) OR
- 7" long x 1/2" wide x 18 gauge thickness flat strip metal (our MS72)



MS5 used on **BJ2
Scroll Bender Set**

1/8" solid round
rod partially
inserted into slot
on **BJ1 Scroll
Bender Jig**



1/8" solid round rod
inserted all the way into slot
on **BJ1 Scroll Bender Jig**

We suggest **PRINTING THIS SHEET OUT** as screen view size may be distorted. Use 1" mark to verify sheet printed out to correct size.

1" mark



MS7 used on **BJ2
Scroll Bender Set**



MS7 used on **BJ3
Scroll Bender Set**



MS5
metal



MS7
metal



MS71
metal



MS72
metal

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Thank you for viewing/printing out the Kosy Creations catalog. If you have any questions, please call us at 507-289-0836 or 800-456-7738 OR email

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