

# CANDELABRA

## Tools Required To Make this Design:

Scrolling: Mk1/2 Scroll Former  
 Punching: Practical Punch/Shear, (or Master Punch/Shear or XL5+ Power Bender fitted with 3mm punch block & pin)  
 Cutting: Practical Punch/Shear (or Master Punch/Shear or XL5+ Power Bender)  
 Riveting: Practical RBR or Master RBR  
 Bending: Practical RBR

We recommend that before starting you wipe all steel bars down so that they are free of grease, scale or dirt. After cutting any component, we also recommend that you trim the corners for a neater finish, if preferred, unless stated otherwise in the instructions. Use a fine tip marker pen, pencil or scribe for marking hole, bend, scroll, roll points on the bars.

**Component 1** Main scrolls x 10  
 12mm x 2mm x 457mm

Take five lengths of 12mm x 2mm x 914mm steel and cut in half to form ten 457mm lengths. Using the design sheet overleaf for component 1 mark out the scroll points S1 on all ten pieces.

Using the Mk1/2 scroll former, place each strip in and form a scroll and stop when the S1 mark touches the formers segment. [Note—in this case this is the maximum scroll possible on the Mk1/2].

Next roll a curve from the S1 mark to the end of the piece of steel using Template 1 as a guide.

**Component 2** Pentagon x 1  
 12mm x 2mm x 150mm

From the remaining material, cut a piece of material 150mm long. Next mark positions for bending points [B] and holes [H] using the design sheet overleaf (component 2—note that this drawn to scale on the design sheet so you can easily mark out the 15mm increments separating each hole from each bend point.

Then start by punching all 5 holes.

Then using template 2a to set your bend angle on the RBR tool create the pentagon in template 2b. (Tip - start with a slightly wider angle than 108 degree and set the stop on the tool and bend at each bend point. If the two ends of the formed pentagon do not touch, make a very small adjustment and then go round each bend again until the ends just touch).

## Assembly

Start by laying out two of the Main Scrolls as depicted in Template 1 and mark at the "mark/punch" point, punch a hole at these marks. Repeat for the other four Main Scroll pairs.

Assemble the resulting five Main scroll pairs to the Pentagon using 10x3mm nuts and bolts. At this point you may wish to tweak (slight bend by hand) the scrolls which are used as feet so that they all sit flat.

For a more permanent fixing replace the nuts and bolts one at a time with a 8x3mm rivet you will need to rotate the scrolls through 90 degrees in order to rivet them, removing both rivet posts will also help. Once riveted you can turn them back through 90 degrees into the correct orientation.

When you are happy the next step is to attach the candle holders. Start by making sure all the nuts and bolts are tightened and turn the candelabra upside down and stand it on a flat surface. Where the top of the scrolls touch the surface, mark the required hole for punching to ensure that all the candle holders are all level. Punch the 5 holes and fix the candle holders on to the scrolls using the 10x3mm nuts and bolts.

## Finishing

The finished item can now be painted in a wide variety of finishes either by aerosol or by brush application. Once you have coated your candelabra you can now add the tea-light holder which sits on the pentagon. Next rest the glass saucer on the top of the unit making sure it is level then add the bumper feet so that they sit just underneath the rim of the saucer. This is designed to take a scented wax candle which melts **when a small tealight** is lit underneath it. [Note—please make sure that the saucer sits flat and that the candelabra is on a stable surface as the wax can get very hot. Also make sure all 5 candles are held tight in the holders by bending the petals by hand if necessary]



66 CLOUGH ROAD, HULL HU6 1SR · TEL: 01482 345067 · FAX: 01482 441141  
 email: info@jandrwood.co.uk · Issue 1

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The candelabra is an elegant and graceful design that looks good as either a centerpiece on a dining table or used outside on your patio table. Whether for yourself or as a gift to someone this unique design can be created in very little time with the knowing fact it was made by you.  
 The candelabra will not only brighten up any room but make it smell good too! With its saucer for melting scented wax it can create beautiful aromas all around your house, alternatively when you wish to enjoy the outside you can always use citronella insect repellent scents to relax in peace.

**metalcrafter**

Design Pack

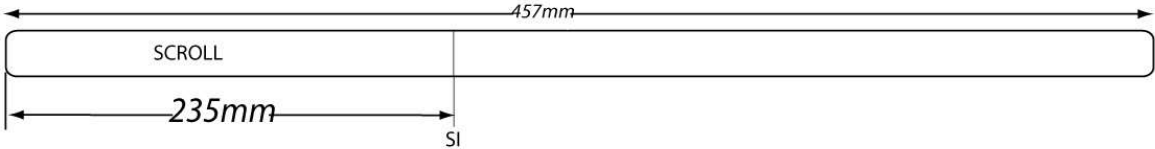
**CANDELABRA**

Difficulty Rating:

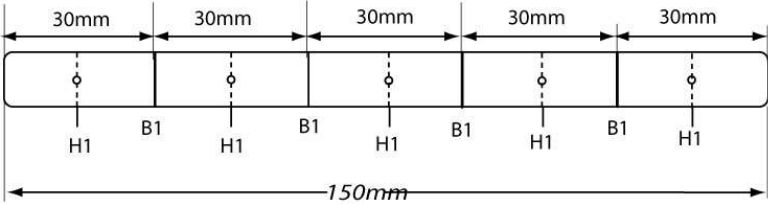
Easy	
Straightforward	✓
More complex	

# DESIGN PACK: CANDELABRA

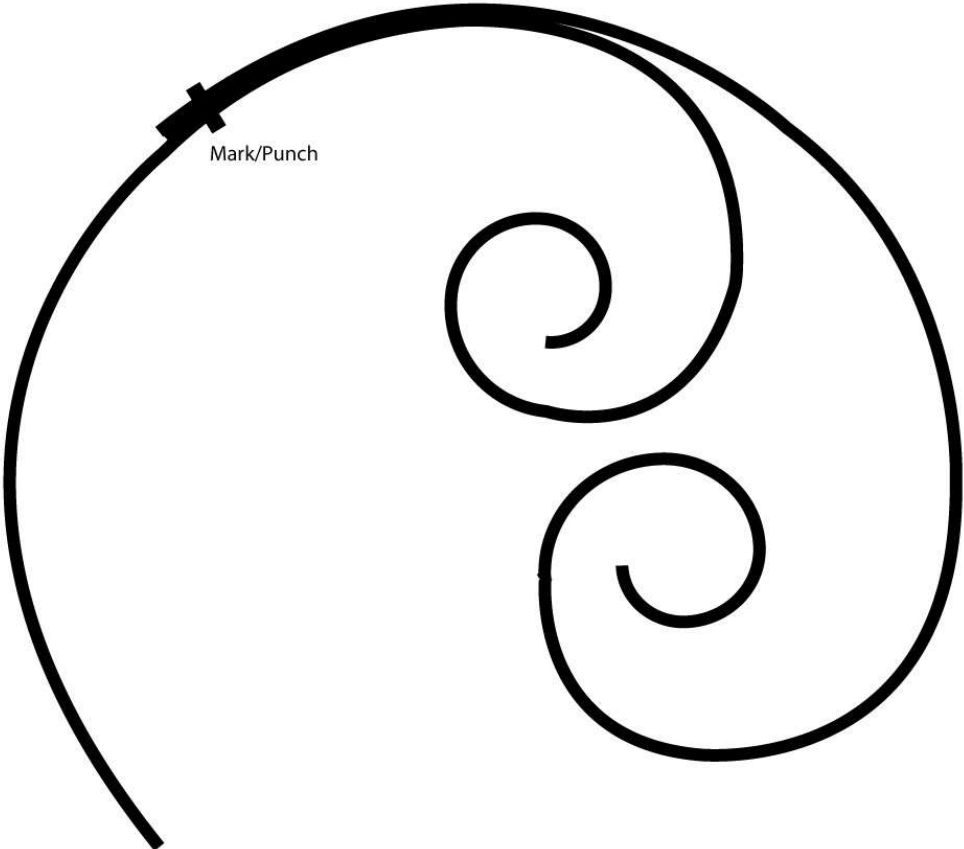
COMPONENT 1 [NOT TO SCALE] X10



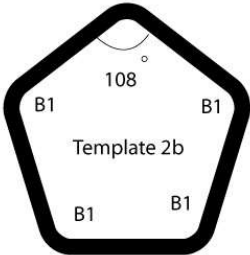
COMPONENT 2 [TO SCALE]



TEMPLATE 1 [TO SCALE]



COMPONENT 2



COMPONENT 2 [TO SCALE]

LIST OF MATERIALS:

- 6 Lengths of 12mm x 2mm x 3ft [Re-order :MCO34]
- 5 x 8mm x 3mm Rivets [Re-order :MCO51L]
- 10 x 10mm x 3mm Nuts/ bolts [Re-order :MCO60L]
- 1 x E1 Tea Light Holder [Re-order :MC1200]
- 1 x Glass saucer for oil burners [Re-order :MC1415]
- 5 x E6 Slim Tulip Candle Holder [Re-order :MC1204P]
- 10 x F33 Petal Flower [Re-order :MC1401]
- 1 x Small Bumper Feet [10 Pack] [Re-order :MC1274]