

# LANTERN CHANDELIER

**Tools Required to Make this Design:**  
Scrolling: Ideally Mk 2/3 Former (Mk 3/3 could be used but may need to adjust dimensions of Component 1)  
Punching: Practical Punch/Shear (or Master Punch/Shear or XL5+ Power Bender fitted with 3mm punch block & pin) if you can only punch 5mm holes, then 5mm rivets and 5mm Nuts & Bolts will need to be ordered separately)  
Riveting: Practical RBR (or Master RBR or XL5+ Power Bender)  
Bending: Practical RBR (or Master RBR or XL5+ Power Bender)  
Rolling: Practical RBR (or Master RBR or XL5+ Power Bender)  
Cutting: Practical Punch/Shear (or Master Punch/Shear or XL5+ Power Bender)

## 1 Scrolls 914mm (x 6)

Take six lengths of 914mm (3') 20 x 3mm steel and, and before it is recommended, you first remove any excess oil, grease or scale with a cloth or abrasive paper.

Next, trim the corners on all six strips then, using a fine tip marker or pencil, mark out the bend B1 and on the reverse side scroll positions S1 and S2 and hole punch positions H1 and H2 as shown on Component 1 on the Design Sheet overleaf.

Start by punching 3mm holes at marks H1 and H2 (in the centre of the 20mm strip) using the Practical Punch & Shear tool. Then, using the 2/3 Former, scroll to position S1 and at the other end of the bar scroll to position S2 making sure you put the steel in the right way round so as to create an elongated 'C' scroll. Repeat this process on the other five strips.

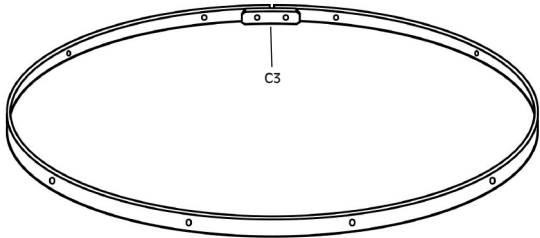
Then, set up the Practical R/B/R for bending and using Template 1 as a guide, bend to approx. 140° at B1. Next set up the Pract. R/B/R for rolling and, this time using Template 2 as a guide, gently roll (making sure you are rolling the right way) from B1 through to S1. Keep offering up the rolled section to Template 2 to get the right curvature.

Repeat this process on the other five strips so that all six strips are identical when you offer them up against each other.

## 2 Large Ring 648mm (x 2)

Cut two x 914mm (3') lengths of steel down to 648mm and mark the five hole positions H3 as shown on Component 2 on the Design Sheet overleaf. Then use the Practical Punch & Shear tool to punch five 3mm holes at these positions.

With the Practical RBR roll each strip in turn on the Practical R/B/R to form a semi-circle - making sure both semi circles are equal and when put face to face form a perfect circle approx 412mm diameter. You may need to manipulate each end in a vice to remove the flats at each end that cannot be rolled.



## 3 Small Strips 40mm (x 2)

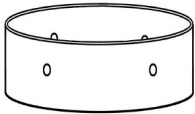
Using an offcut from one of the Large Ring strips, cut two 40mm lengths and trim corners. Mark in 10mm from each end (H4) and punch two 3mm holes. Then with the Practical RBR still set for rolling circles, use the knurled roller of the Winding Handle to bend a slight curve to match the radius

Then place the small strips inside the two semi-circles (making sure the holes align with holes H3 on component no.2), and then use an 8mm x 3mm rivet to join both semi circles together with a neat looking joint.

COMPONENT 1

## 4 Large Connecting Collar (x 1)

Take the connecting collar provided and lay it on Template 3 and mark the six evenly spaced points around the edge and punch 3mm holes at each point using the Practical Punch & Shear.



COMPONENT 4

## 5 Chain Bracket 80mm (x 1)

Using another offcut from one of the Large Ring strips, cut an 80mm length and trim corners. Mark hole positions H5 10mm from each end and bend positions B2 a further 10mm in as shown on Component 5 on the Design Sheet overleaf.

Using the Practical Punch & Shear punch the two 3mm holes points at H5, using the Pract. R/B/R, bend at points B2 to approx 95° using Template No. 3 as a guide.

COMPONENT 5

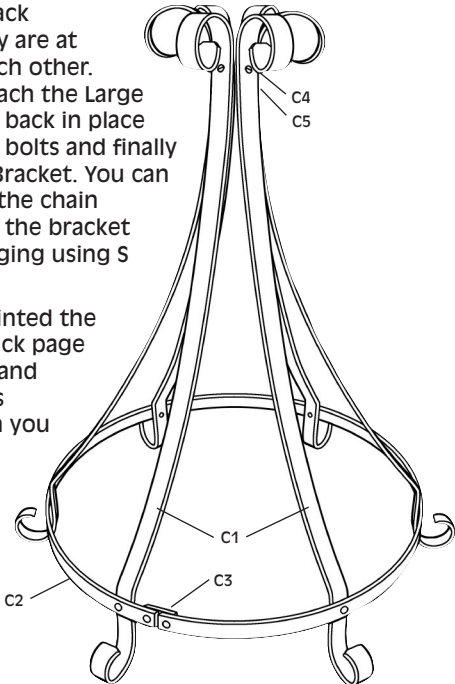
## 6 Assembly

Using the nuts and bolts provided, fix the Connecting Collar to the six long scrolls making sure it is attached at points H1 inside the top scrolls. Then, place the Large Ring outside the long scrolls and use the nuts and bolts provided to fix each long scroll (Component 1) at hole H2 to the Large Ring at H3. At this point, you can make any adjustment to the Long Scrolls curvature or bends necessary to improve the fit.

Next, place the 'Chain Bracket' on the inside of any two opposing long scrolls just underneath the collar, pushing it up until it fits tightly. Then mark on the two long scrolls selected where holes H5 meet the Long Scrolls. Undo the nuts and bolts holding the two long scrolls at the collar and Large Ring and then punch the two 3mm holes at the marked points on the Long Scrolls.

If preferred, you can replace the nuts and bolts provided to fix each long scroll (Component 1) at hole H2 to the Large Ring at H3 with a 8mm x 3mm rivet and rivet the joint. You may need to twist each long scroll at an angle to the large ring in order to get in to rivet the joint but you can twist it back afterwards so they are at right angles to each other. Then finally re-attach the Large Connecting Collar back in place with the nuts and bolts and finally attach the Chain Bracket. You can then feed and fix the chain provided through the bracket and collar for hanging using 5 hooks provided.

Once you have painted the chandelier (see back page for finishing tips) and suspended it in its preferred location you can hang the lanterns of your choice from our great range of lanterns from your finished chandelier.



The finished item can now be painted in a wide variety of finishes (smooth, satin, hammer and metallic) either by aerosol or by brush application. Powder coating and plastic dip finishes can also be applied but these type of finishes are more for commercial/industrial scale finishing.

However, even with aerosol or paint finish you can make your finished item look professional. In this case we used paints from the Plasti-Kote and Hammerite ranges - available from most DIY and Painting/Decorating outlets. For best results, always follow instructions on the tin and make sure the metal is free of all scale, dirt, grease or rust.



# Design Pack LANTERN CHANDELIER

Lanterns of your choice to be purchased separately

### DIFFICULTY RATING:

EASY

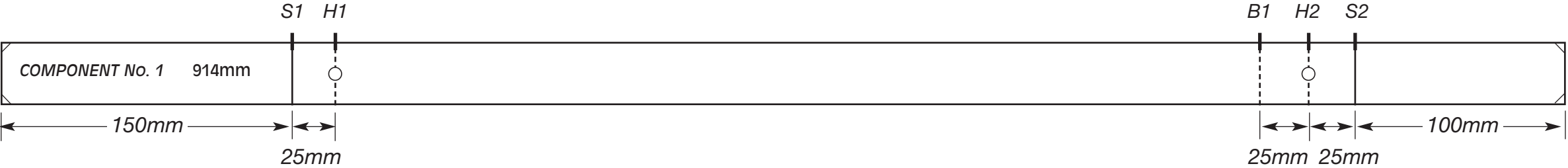
STRAIGHTFORWARD

MORE COMPLEX

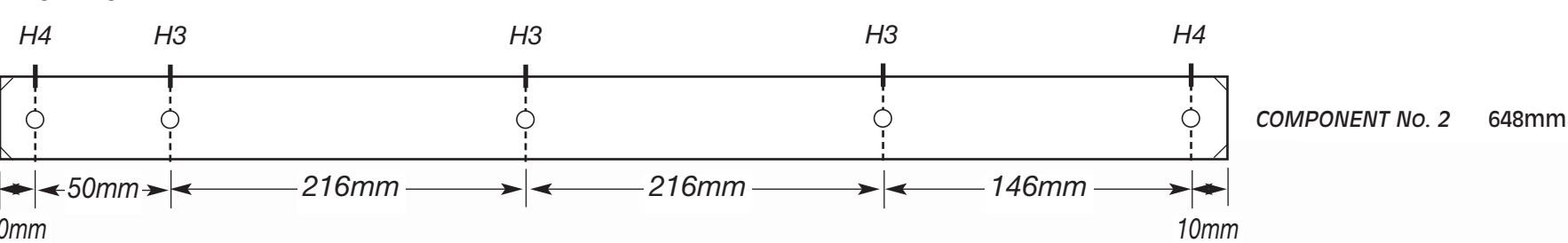


# Design Pack: LANTERN CHANDELIER - DESIGN SHEET

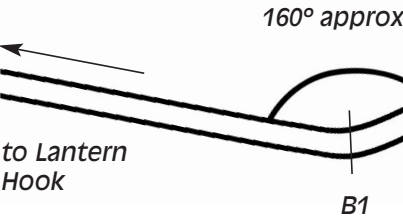
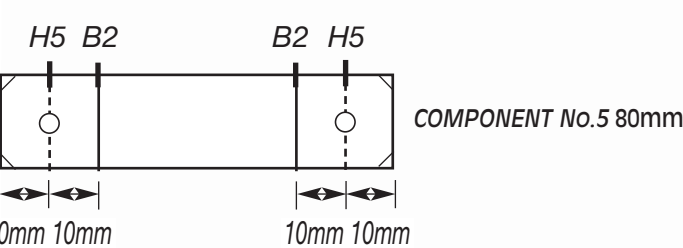
(Scrolls x 6)



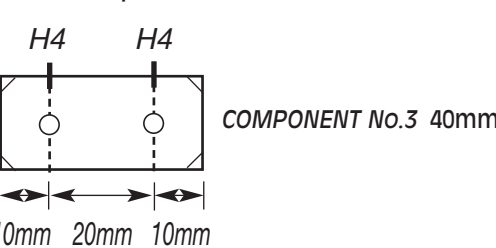
(Large Ring x 2)



(Chain Bracket)

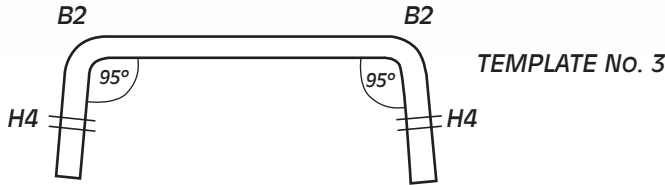
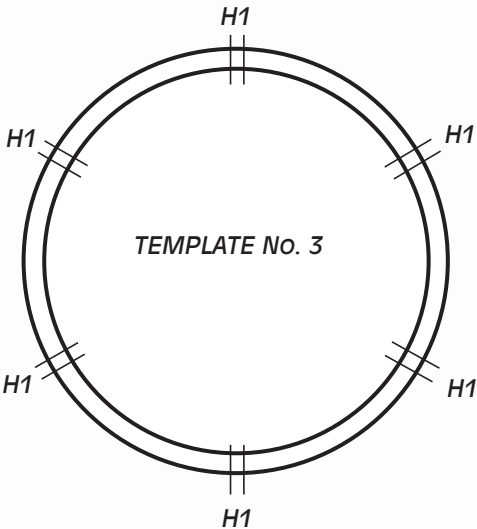


(Small Strips)



TEMPLATE No. 1

TO SCALE



## List of Materials Required:

- 8 x 914mm (3ft) Lengths of 20mm x 3mm Steel Strip [Re-Order Ref: MC039]
- 1 x Large Connecting Collar [Re-Order Ref: MC1291]
- 8mm x 3mm Rivets [Re-Order Ref: MC051L]
- 10mm x 3mm Nuts & Bolts [Re-Order Ref: MC060L]
- 2 metres x Jack Chain [Re-Order Ref: MC1297]
- 2 x Small Hooks [Re-Order Ref: MC1300]
- 6 x Lanterns (order separately from our range of lanterns)