

# HOLLY & IVY HANGING STAND

## Tools Required to Make this Design:

- Scrolling: Mk 1/2 Scroll Former only
- Punching: Practical Punch/Shear (or Master Punch/Shear or XL5+ Power Bender fitted with 3mm punch block & pin)
- Riveting: Practical RBR (or Master RBR or XL5+ Power Bender)
- Bending: Practical RBR (or Master RBR or XL5+ Power Bender)
- Rolling: Practical RBR only (or Master RBR or XL5+ Power Bender)
- Cutting: Practical Punch/Shear (or Master Punch/Shear or XL5+ Power Bender)

Note- with all lengths of steel it is recommended that you wipe it clean of any oil or scale before working and for a better finish trim the corners of all cut lengths. Use a fine tip indelible marker or pencil to mark the steel.

### 1 Main C Scrolls 560mm (x 2)

COMPONENT 1

Take one 914mm length of 12mm x 2mm material and mark out 560mm and cut at this mark. Repeat with other 914mm length so that you end up with two 560mm lengths.

Using the Design Sheet as a reference, mark scroll point S1 160mm from each end and Hole Position H1 at the midpoint 280mm from one end. Then either side of this H1 midpoint measure 13mm and mark bend positions B1.

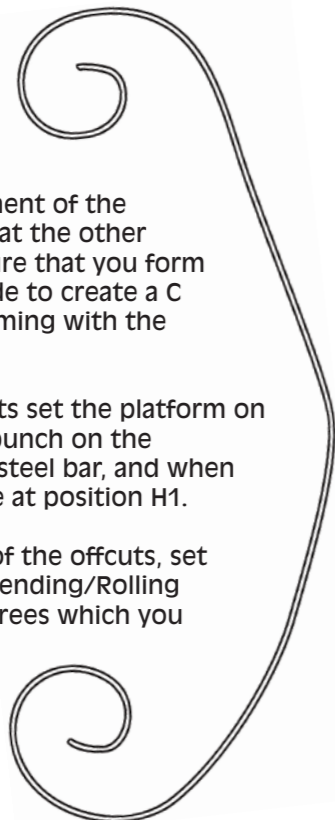
Start by forming the scrolls at each end by placing the first length of steel in the scroll forming tool and operate it until the S1 mark on the steel just touches the segment of the scroll forming tool. Repeat at the other end, taking care to make sure that you form the scroll on the correct side to create a C scroll. Repeat the scroll forming with the other length of steel.

Next with one of the off cuts set the platform on the Punch & Shear tool to punch on the centreline of a 12mm wide steel bar, and when that is done punch the hole at position H1.

Next, and again using one of the offcuts, set the bend on the Riveting/Bending/Rolling tool to bend approx 18 degrees which you can test against Template 1 on the Design Sheet.

When this is set, bend this angle at the two B1 positions and repeat on the other scroll.

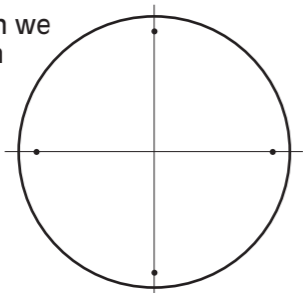
Finally, set the Riveting/Bending/Rolling tool to roll a curve as shown in Template 2 and then roll that curve between mark B1 and S1 on the top half of the scroll (marked as R1) on Component 1. Repeat on the matching component.



### 2 Base (x 1)

COMPONENT 2

Take the T42 Candle Tray which we will use as a base, and lay it on the image of Component 2 on the Design Sheet. Mark all 4 points around the edge and place into the Punch and Shear tool and punch the 4 holes



### 5 Assembly

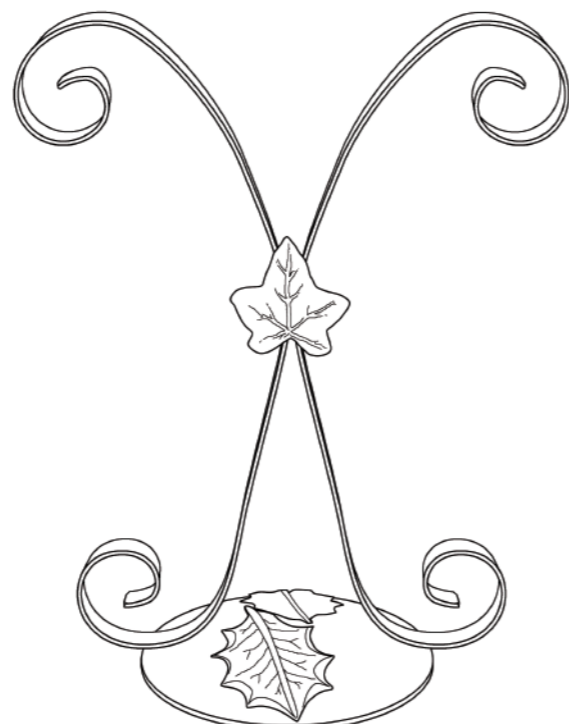
Start by taking the two component 1's and offer them up to each other so they touch on the flat sections where H1 is. Use a nut & bolt to temporarily join them together and then offer the resulting metalwork up to the base with the two End "A"s touching the candle tray and line up with holes H2 on the base. The bottom of the scrolls should line up with the holes but if they need adjusting you can manipulate by hand or put them back in the RBR tool and tweak the bend until the bottoms of the scrolls meet the holes H2. Mark the touching point on the scroll and punch holes on each scroll.

Then undo the fastening in the centre of the two component 1's and slide the tabs of the two W20 Easyfix Ivy Leafs in between the component 1's and use the longer 10mm nut and bolt fastening to hold everything firmly in place.

Next use the 8mm x 3mm nut and bolts provided to attach the scrolls at the bottom end A of the component 1's to the Base (component 2) and tighten up.

Lastly take the two L24 Holly Leaves and punch a hole in each approx 10mm from the end of the Leaf Tip see Template 3.

This can be attached to the Base at H3 by 8mm nut & bolt or by 6mm rivet (remember to put the rivet head on the underside for a neater finish. NOTE- If you are painting the leaves a separate colour to the base you may wish to use a nut and bolt fixing as a temporary fixing until all items are painted.



For hanging novelties



For hanging baubles



For hanging lanterns

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 Plast-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.

J&C R WOOD



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ISSUE NO. 1  
JULY 14

metalcraft™

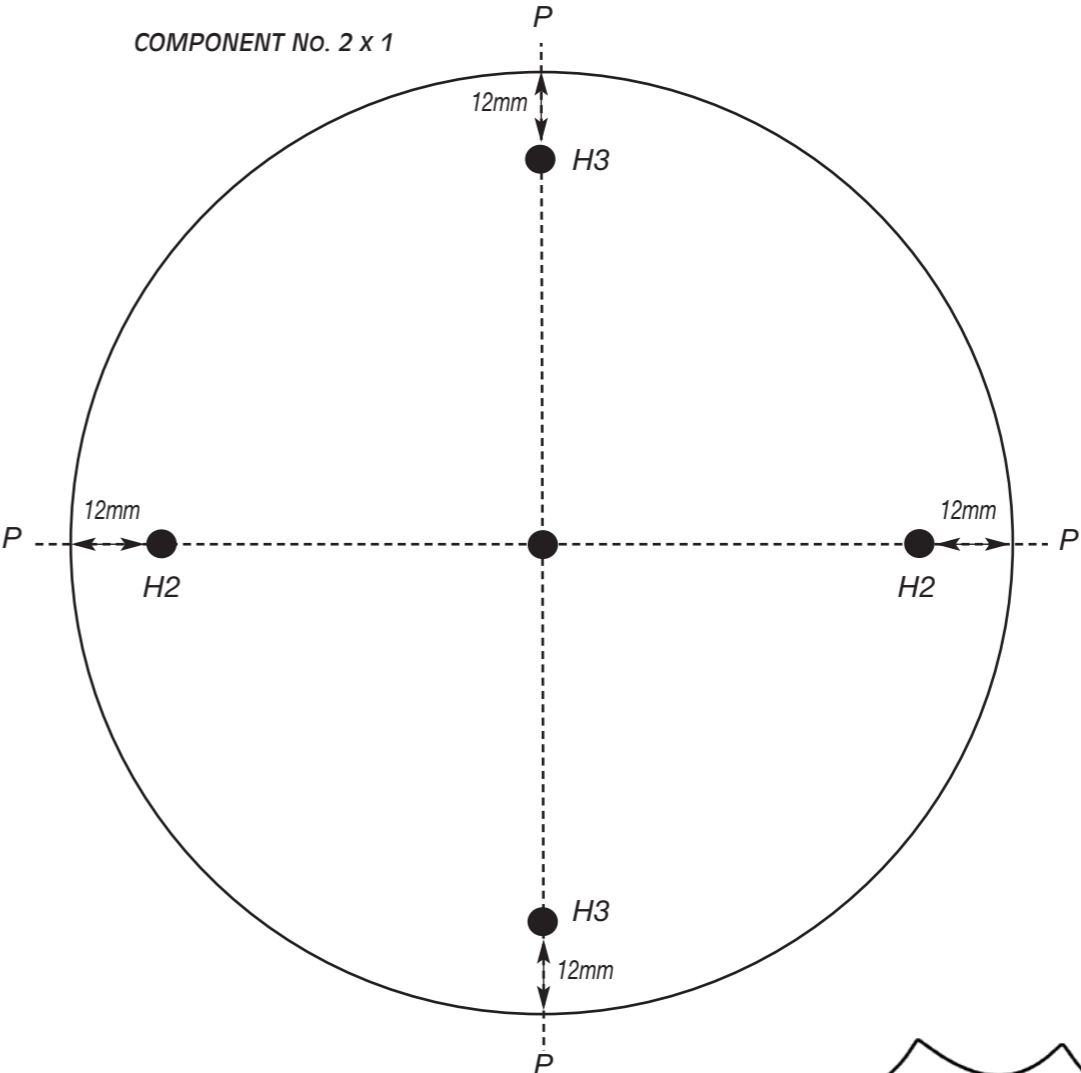
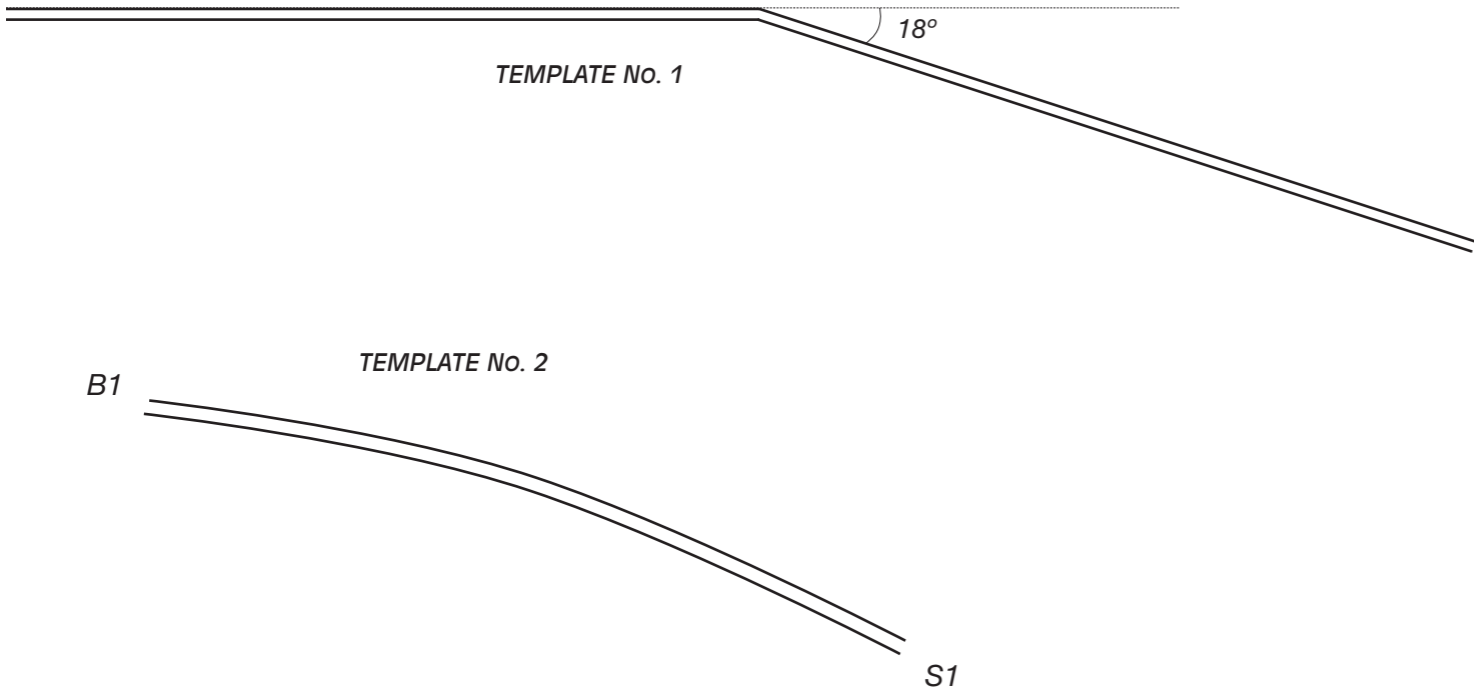
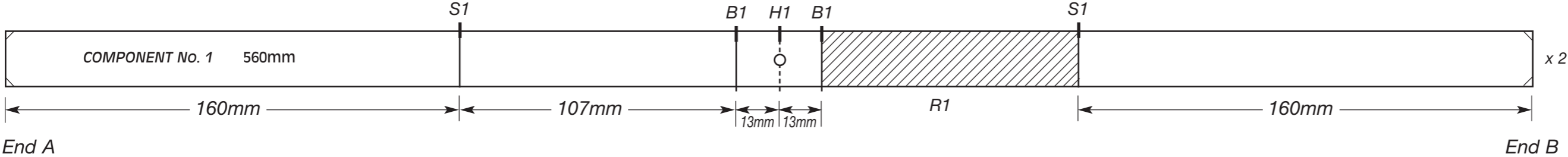
## Design Pack HOLLY & IVY HANGING STAND

DIFFICULTY RATING:

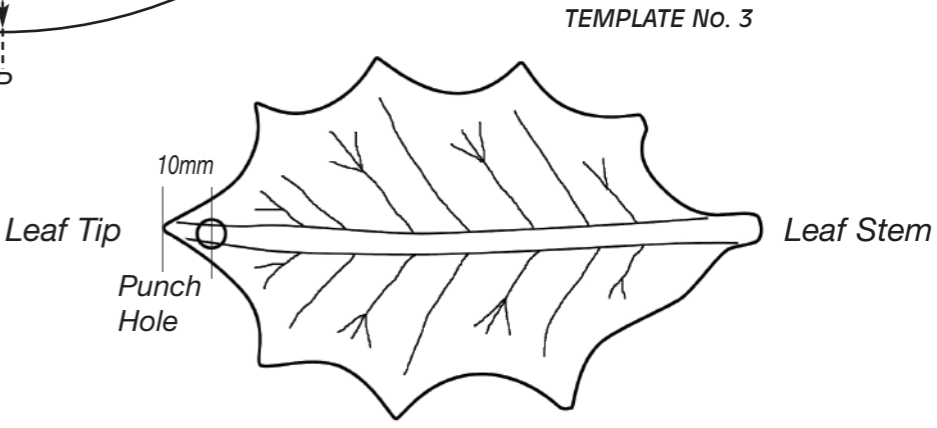
EASY	✓
STRAIGHTFORWARD	
MORE COMPLEX	

# Design Pack: HOLLY & IVY HANGING STAND - DESIGN SHEET

NOT TO SCALE:



TO SCALE:



**List of Materials Required:**

- 2 x 914mm (3ft) Length of 12mm x 2mm Steel Strip [Re-Order Ref: MC034]
- 1 x T42 5" Chunky Candle Tray [Re-Order Ref: MC955]
- 2 x W20 Easy Fix Leaves [Re-Order Ref: MC082]
- 2 x L24 Holly Leaf [Re-Order Ref: MC710]
- 2 x 6mm x 3mm Rivets [Re-Order Ref: MC050L]
- 3 x 8mm x 3mm Nuts & Bolts [Re-Order Ref: MC059L]
- 1 x 10mm x 3mm Nut & Bolt [Re-Order Ref: MC060L]