

Wine Bottle Wine Rack

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
 Bending: Practical RBR
 Rolling: 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 Outer Frame (x2)
12mm x 2mm x 700mm

Cut two lengths of 700mm out of 12mm x 2mm material. Mark hole positions H1 & H2, bend point B1 and roll points R1,R2 and R3 as shown as in the Design sheet overleaf. Using the RBR tool, roll a curve between positions R2 and R3 until you achieve the required curvature shown in Template 1. Then flip the component over to roll on the reverse face between R2 and R1 again using Template 1 to achieve the required shape for one side of the wine bottle neck. Next bend a 90° angle at position B1 using Template 2 to set your bend angle. Finish by punching the holes at positions H1 and H2.

Component 2 Bottom
12mm x 2mm x 220mm

Cut one length of 220mm out of 12mm x 2mm material and mark both hole positions H2 and bend position B2 and B3 using the Design sheet overleaf. Using the RBR, bend a 90° angle (again using Template 2) at B2 & B3 to create the component shown in Template 3. Finally punch both H2 holes.

Component 3 Bottle Top
12mm x 2mm x 160mm

Cut one length of 160mm out of 12mm x 2mm and mark out bend positions B4,B5 and B6 using the Design sheet overleaf. Then use the RBR tool to bend a 90° angle (again using Template 2) at all three points in positions to form a rectangle as shown in Template 4.

Component 4 Cross Bars (x3)
12mm x 2mm x 230mm

Cut 3 lengths of 230mm out of 12mm x 2mm and mark hole positions H5,H6,H7 and H8 and bend positions B7, B8 using the Design sheet overleaf. First bend an angle of 120° at position B7 using Template 5 to set your angle. Then flip the bar over and the same angle but on the opposite face at B8 to create a component like the one in Template 6. Once bends are achieved punch holes in all positions ready for the assembly stage. Repeat for the other two cross bars.

Component 5 Large Bottle Rings (x3)
12mm x 2mm x 275mm

Cut 3 lengths of 275mm out of 12mm x 2mm and mark hole position H6 and bend position B9 using the Design sheet overleaf. Using Template 7, bend an angle of 110° at B9. Then roll a complete circle between B9 and the far end of the bar to for a component shown in Template 8. Repeat for the other two large rings.

Component 6 Small Bottle Ring (x3)
12mm x 2mm x 115mm

Cut 3 lengths of 115mm out of 12mm x 2mm. Mark hole position H9 using Design sheet overleaf. Roll into a complete circle and then punch at H9. Repeat for the other

Component 7 Small Ring Bracket (x3)
12mm x 2mm x 45mm

Cut 3 lengths of 45mm out of 12mm x 2mm and mark out hole positions H7 & H9 and bend position B10 using the Design sheet overleaf. Next bend a 90° angle using Template 2 as a guide and punch holes H7 7 H9. Repeat for the other two.

Component 8 Heart
12mm x 2mm x 210mm

Cut one length of 210mm out of 12mm x 2mm. Mark out the bend position B11 and scroll positions S1 as shown on the Design sheet overleaf. Place one end of the steel in the Mk1/2 Scroll Former and form a scroll until the mark until the first S1 mark just touches the forming segment of the tool. Then take scroll out and repeat at the other end of the steel to create a "C" shaped scroll.

Assembly

See overleaf for instructions and a diagram on how to put this project together and paint it.



This modern design is a fantastic way to store your wine bottles on your wall. Style your home or even pass on as a great gift to a friend or family.

GENERAL NOTE



Design Pack

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Difficulty Rating:	
Easy	
Straightforward	✓
More complex	

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Assembly

Firstly, lay out the two component 1's to create your outer shape. Then place component 2 in position at the bottom of the bottle shape and align holes H2 on these components and rivet together .

Next place component 3 at the top of component 1 and mark on component 3 where hole positions H1 on component 1 meet component 3. Punch these hole positions and rivet together to form the outer shape of your holder.

Then take your small bottle rings (component 6) and rivet to the small brackets (component 7) using holes H9 on each component. Repeat for the other two rings and brackets.

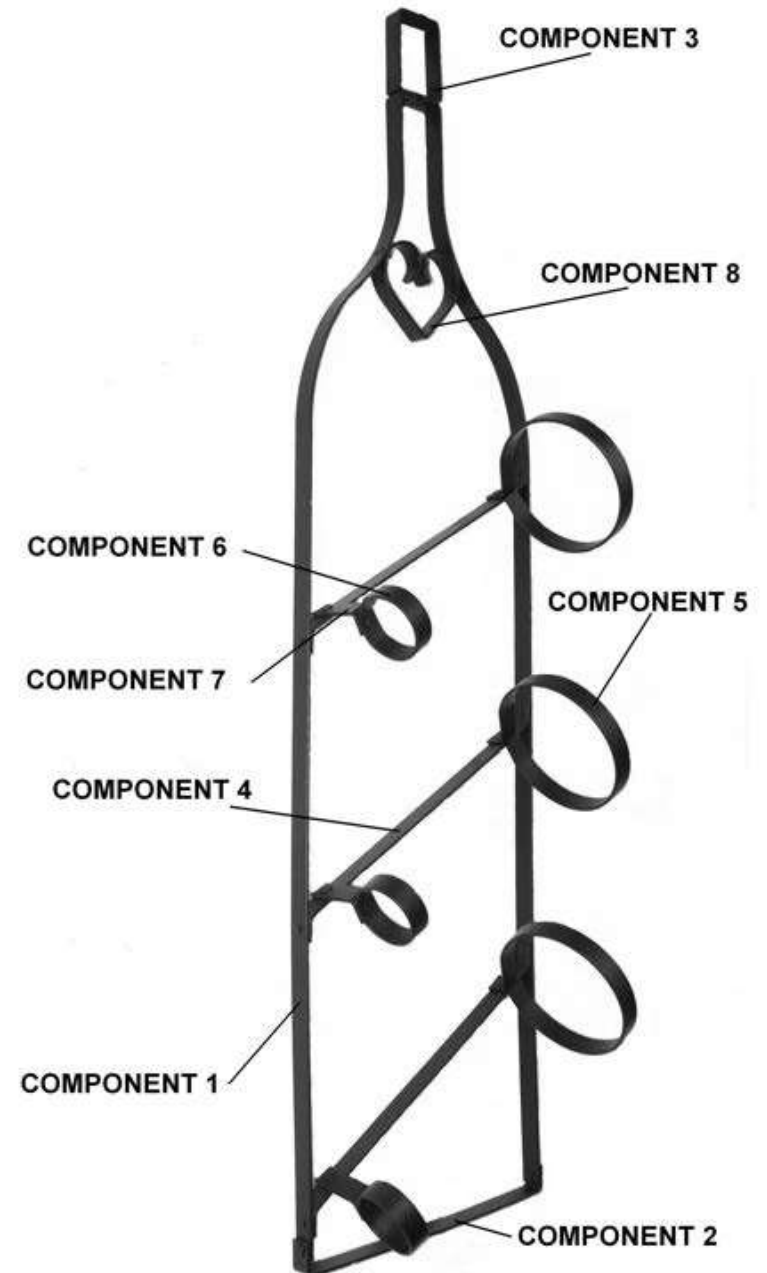
Next take a cross bar component 4 and place them inside the frame as per the image opposite taking care to get the orientation of the cross bar right. Next take the riveted together components 6 & 7 and rivet this to component 4 with holes H7 aligned (this should be the lower of the two bottle rings on the cross bar). Next take the large bottle ring Component 5 and rivet to the crossbar (component 4) at hole H6. Repeat this for the other two cross bars.

Now that your cross bars have each a large bottle ring and a small bottle ring fixed in place, position these back inside the frame. Use a tape measure to position these in the bottle shaped frame with an even gap approximately 160mm from each cross bar on both sides to ensure all 3 cross bars finish parallel.

Once these are in position mark on Component 1 where H8 hole positions on the cross bars meet the outer frame. Punch holes at these marks and rivet the cross bars into position. Finally take the decorative heart (component 8) and place in position at the bottle neck of your frame. Mark on both component 1's and component 8 where they touch and then punch and rivet together.

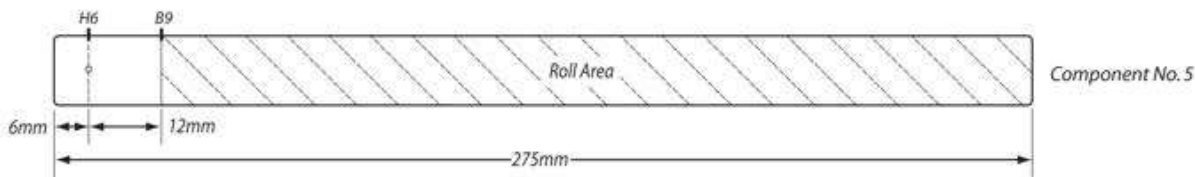
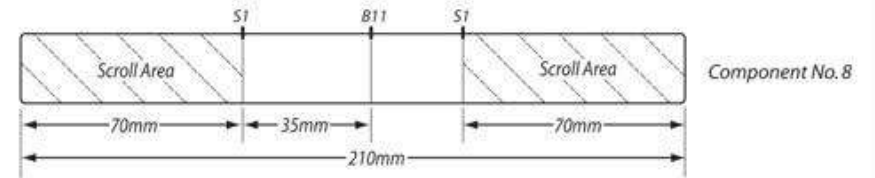
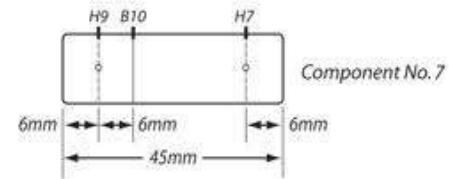
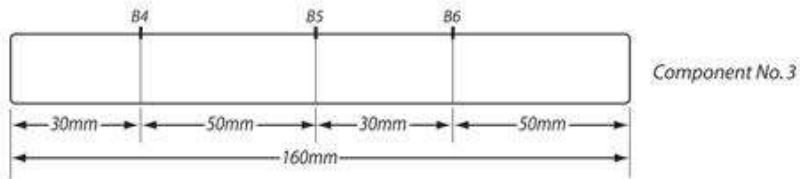
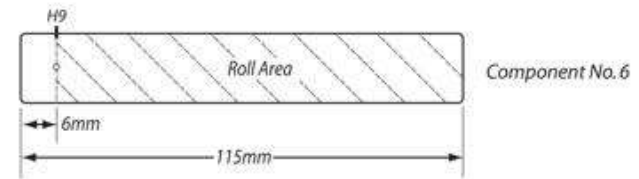
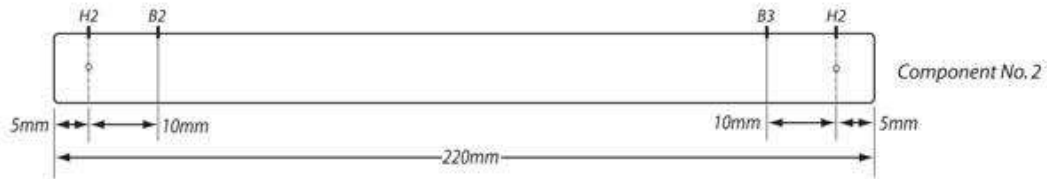
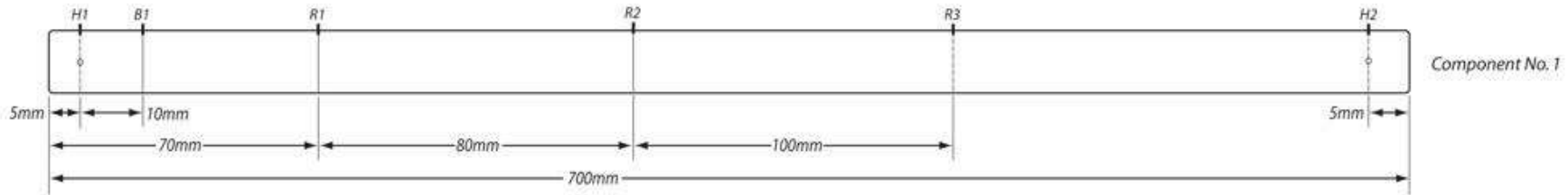
And there you have your finished wine bottle wine rack that can be hung from a sturdy screw or hook on a wall.

The finished item can now be painted using a suitable paint for metalwork in a variety of finishes either by aerosol or by brush application. Use the paint manufacturers guidelines on preparation and number of coats.



Design Pack: Wine Rack Holder - Design Sheet

Not to Scale:



List of Materials

5 Lengths x 12mm x 2mm x 3ft [Re- Order Ref: MC034]

18 x 6mm x 3mm Rivets [Re-Order Ref: MC050L]

Design Pack: Wine Rack Holder - Design Sheet Template Sheet

