#### Tools required to make this design



Practical Punch/Shear (or Master Punch/Shear or XL5+ Power Bender) Practical Punch/Shear (or Master Punch/Shear or XL5+ Power Bender) Practical Punch/Shear (or Master Punch/Shear or XL5+ Power Bender\*) Practical RBR / Master RBR

\*Fitted with 3mm Punch Block & Pins.

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 these instructions tell you otherwise. Use a fine tip marker pen, pencil or scribe for marking hole, bend, scroll, roll points on the bars.

Component 1

Main Strut 15mm x 3mm x 1500mm (4)

Cutting

Punching

Riveting

Bending

Using the Practical Punch/Shear Tool (PPS), cut 4 lengths of 15mm x 3mm x 1830mm (6ft) steel strip down to 1500mm. Using the same tool, chamfer all corners. Mark hole positions H1-H7 and bend positions B1 and B2.

Using the Practical Riveting, Bending & Rolling Tool (PRBR), form the bends at B1 and B2. Use the templates on Template Sheet 1 for Component 1 to achieve the desired angles. Using the PPS tool punch holes H1-H7.

Component 2

Intermediate Strut 15mm x 3mm x 1295mm (4)

Using the PPS tool, cut 4 lengths of 15mm x 3mm x 1830mm (6ft) steel strip down to 1295mm. Using the same tool, chamfer all corners. Mark hole positions H8-H14 and bend position B3. Using the PRBR tool, form the bend at B3. Use the template on Template Sheet 1 for Component 2 to achieve the desired angle. Using the PPS tool punch holes H8-H14.

Component 3

Octagonal Hoop 15mm x 3mm x 800mm (4)

Using the PPS tool, cut 4 lengths of 15mm x 3mm x 914mm (3ft) steel strip down to 800mm. Mark hole positions H15-H22 and bend positions B4-B10. Using the PRBR tool, form all the bends to create an octagonal hoop. Use the template on Template Sheet 1 for Component 3/4 to achieve the desired shape. Using the PPS tool punch all the holes.

**Component 4** 

Wide Octagonal Hoop 20mm x 3mm x 800mm (2)

Using the PPS tool, cut 4 lengths of 20mm x 3mm x 914mm (3ft) steel strip down to 800mm. Mark hole positions H23-H30 and bend positions B11-B17. Using the PRBR tool, form all the bends to create an octagonal hoop. Use the template on Template Sheet 1 for Component 3/4 to achieve the desired shape. Using the PPS tool punch all the holes.

### ASSEMBLY INSTRUCTIONS

Using 10 x 3mm nuts and bolts connect the Main Struts (Component 1) to the inside face of each of the 20mm wide Octagonal Hoops (Component 4) using holes H2 and H5 on Component 1 and holes H23, H25, H27 and H29 on Component 4.

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Using 10 x 3mm nuts and bolts connect the Intermediate Struts (Component 2) to the inside face of each of the 20mm wide Octagonal Hoops (Component 4) using holes H9 and H12 on Component 2 and holes H24, H26, H28 and H30 on Component 4.

3 Using 10 x 3mm nuts and bolts connect the Main Struts (Component 1) to the inside face of each of the 15mm wide Octagonal Hoops (Component 3) using holes H1, H3, H4 and H6 on Component 1 and holes H15, H17, H19 and H21 on

Component 3.

Using 8 x 3mm nuts and bolts connect the Intermediate Struts (Component 2) to the inside face of each of the 15mm wide Octagonal Hoops (Component 3) using holes H8, H10, H11 and H13 on Component 2 and holes H16, H18, H20 and H22 on Component 3.

Using the PPS tool, punch a hole in the end of the Acanthus leaves as shown and attach them with 6 x 3mm nuts and bolts to the top of the main and intermediate structs using holes, H7 and H14 on Components 1 and 2 respectively.

6 Manually adjust the components as required to achieve the desired appearance before final tightening of all nuts. Note bolted connections can be made "permanent" with a dab of strong adhesive over the nut.

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

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 finishing. I he tinished item can now be painted in a wide variety of tinishes (smooth, satin, hammer and metallic) either by

**Obelisk** 

**Design Pack** 

meta craft

Difficulty Rating: Easy Straightforward More complex



# **GENERAL NOTES**

of strong adhesive over the nut. tinal riveting (where applicable) or full bolt tightening. Note bolted connections can be made "permanent" with a dab provides an opportunity for component adjustment and subsitution of amended components if necessary prior to It is recommended that the project is assembled in the first instance using nuts and bolts, loosely tightened. This

finished article. Please note that the photograph is for illustrative purposes only and is intended as a guide to the appearance of the

## **NOITARODED DIA HRINIF DECORATION**







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NOT TO SCALE

