

Design Notes

Snowman Clock

Difficulty Rating:

Easy	
Straight forward	YES
More complex	

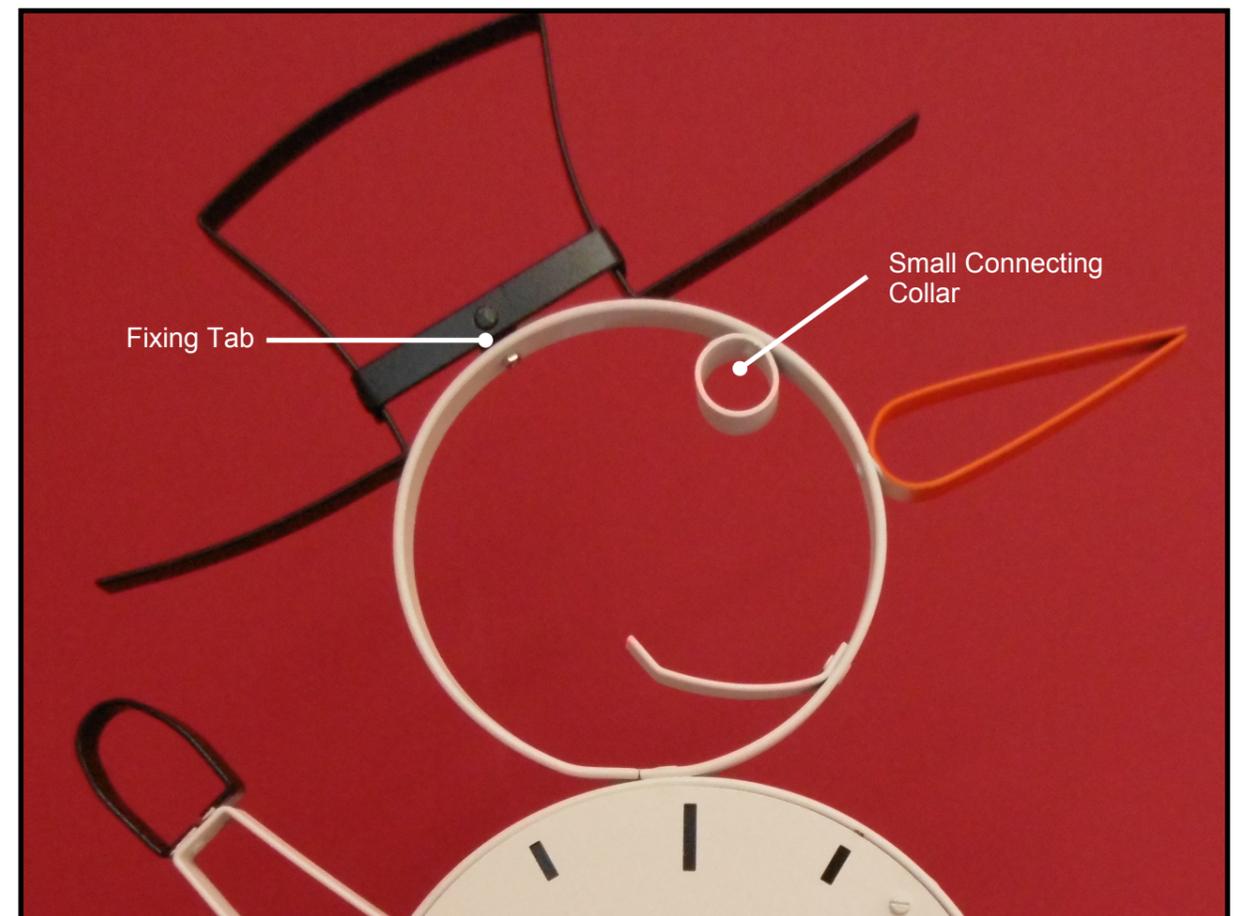
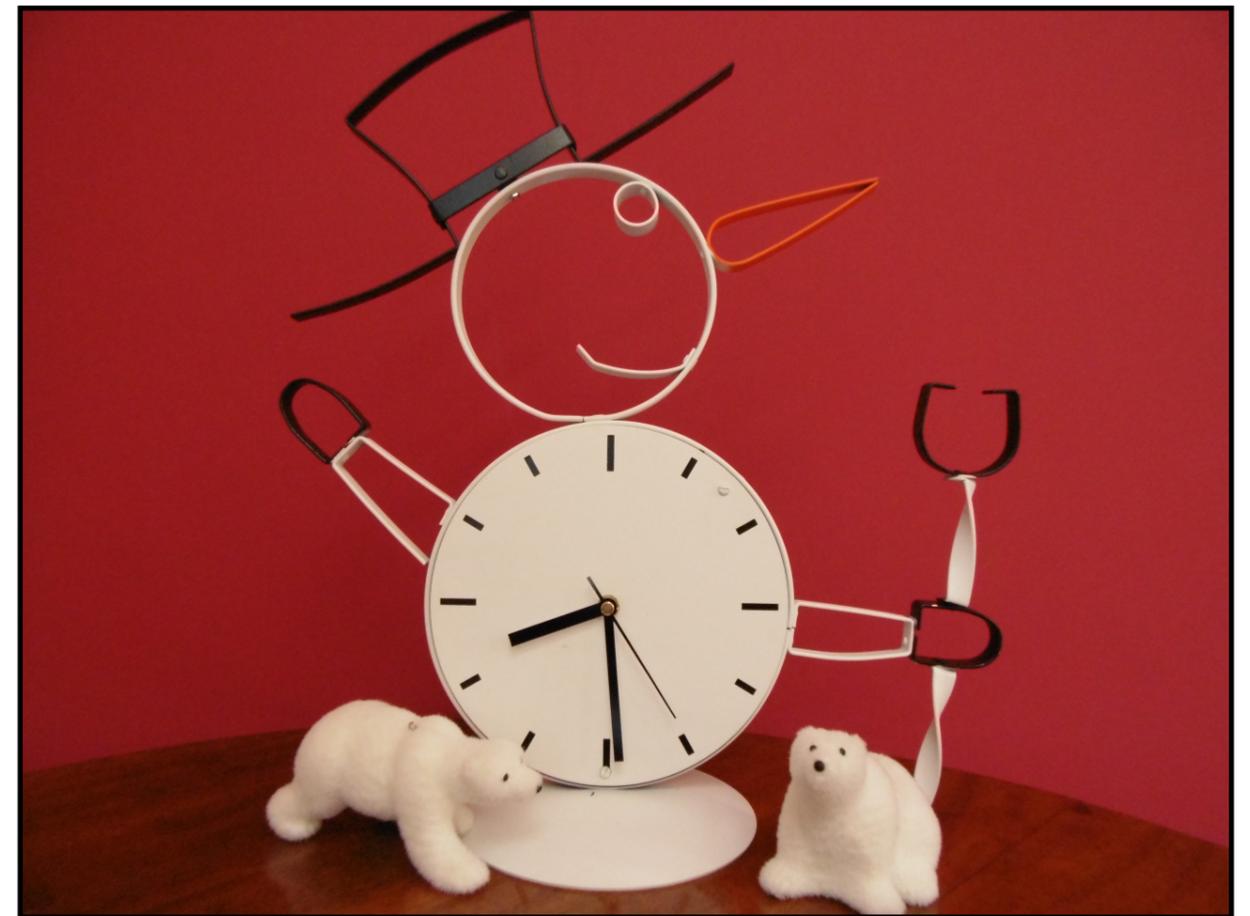
Please note:

These Design Notes are for our regular metalcrafters who are familiar with our more comprehensive Design Pack instruction sheets and who are ready to progress on to new projects where briefer outline instructions are sufficient. The dimensions in the diagram(s) shown overleaf are approximate and for guidance only. Where bend angles, rolling radii or other information are not specified it is assumed that the reader is experienced enough with Metalcraft tools to be able to work these out for themselves from the drawings provided.

Tools required to make this design

Punching	Practical Punch/Shear Tool (PPS) or Master Punch/Shear or XL5+ Power Bender fitted with 3mm Punch Block & Pins.	YES
Cutting	Practical Punch/Shear Tool (PPS) or Master Punch/Shear Tool or XL+ Power Bender Tool	YES
Riveting	Practical Riveting Bending and Rolling Tool (PRBR)	YES
Bending	Practical Riveting Bending and Rolling Tool (PRBR)	YES
Rolling	Practical Riveting Bending and Rolling Tool (PRBR)	YES
Scrolling	Mk 2/2H or Mk 2/3 Scroll Former	

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.



INSTRUCTIONS: SNOWMAN CLOCK

HAT
12 x 2mm Strip - 495mm long.
Roll and bend as shown.

HAT BAND
12 x 2mm Strip - 110mm long.
Bend both ends to form 12mm long fixing tabs for connection to hat.

HAT BAND FIXING TAB
12 x 2mm Strip - 25mm long approx.
Bend in middle to form right angle and punch to receive rivet fixings for hat band and connection to head ring.
See Clock Face Fixing Tab for details.

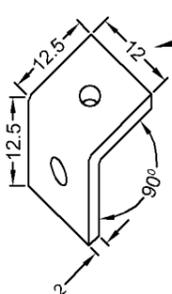
HEAD
15 x 3mm Strip - 475mm long approx.
Roll to form complete circle.
Punch as required to suit fixings where shown.

HAND
See Spade hand instructions.

FREE ARM
12 x 2mm Strip - 170mm long.
Bend as shown (approx arm length 65mm).
Form 1 right angle tab approx 12mm long for rivet connection to outer clock ring.

CLOCK OUTER RING
15 x 3mm Strip - 620mm long approx.
Roll to form complete circle. Check finished ring suits clock face.
Punch as required to suit fixings where shown.

CLOCK FACE FIXING TAB
12 x 2mm Strip - 25mm long approx.
Bend in middle to form right angle and punch to receive bolts.



BASE PLATE (6.5" Candle Tray-See Materials List)
Bolt through outer clock ring and clock face fixing tab.

NOSE
12 x 2mm Strip - 215mm long approx.
Roll middle of strip first, circle Ø 25mm approx.
Bend both ends together to form point.
Rivet to head ring as shown.

EYE (Small Connecting Collar)
Rivet ring to head as shown

MOUTH
12 x 2mm Strip - 75mm long approx.
Roll middle of strip first to form smile.
Bend both ends up to form 12mm tabs.
Use one for rivet connection to head ring as shown.

SPADE HANDLE
12 x 2mm Strip - 165mm long.
Roll middle of strip first, circle Ø 50mm approx.
Bend both ends at right angles approx 12mm to form spade handle.
Rivet to top of spade shaft.

SPADE SHAFT UPPER
12 x 2mm Strip - 105mm long approx.
Twist strip first.
Bend both ends at right angles approx 12mm to form fixing tabs for riveting to spade handle and top of hand.

SPADE HAND
12 x 2mm Strip - 130mm long.
Roll middle of strip first, circle Ø 25mm approx.
Bend both ends at right angles approx 12mm to form tabs.
Rivet bottom tab to end of arm.

SPADE SHAFT LOWER
12 x 2mm Strip - 95mm long approx.
Twist strip first.
Bend top end at right angles approx 12mm to form fixing tab for riveting to underside of hand.

CLOCK FACE FIXING TAB
12 x 2mm Strip - 25mm long approx.
Bend in middle to form right angle and punch to receive bolt and rivet fixings.

SPADE ARM
12 x 2mm Strip - 170mm long.
Bend as shown (approx arm length 65mm).
Form 2 right angle tabs approx 12mm long for rivet connection to outer clock ring.

CLOCK FACE (See Materials List for details)
Attach hands last of all.

List of Materials Required:

- 2 No. 914mm x 15mm x 3mm Steel Strip (Re-Order Ref: MC037)
- 3 No. 914mm x 12mm x 2mm Steel Strip (Re-Order Ref: MC034)
- 1 x Small Connecting Collar (Re-Order Ref: MC1289)
- 1 x Chunky 6.5" Candle Tray (Re-Order Ref: MC956-T43)
- 1 x Modern Round Clock Face (Re-Order Ref: MC1403)
- 1 x Large Round Clock Back Plate (Re-Order Ref: MC1264)
- Quartz Clock Movement (14mm Spindle), (Re-Order Ref: MC1240)
- Modern Hands (Re-Order Ref: MC1354)

NOT TO SCALE