

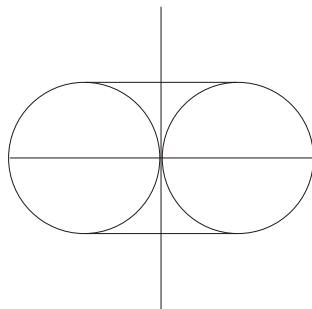
Cover Page

Internal 'Clockwise' Rotating Central Assembly

'X2' Prototype Part Construction

Workshop Schematics

12 (twelve) pages including cover page



Contents

1. Cover Page
2. Contents
3. Capacitor Plate page 1
4. Capacitor Plate page 2
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6. Capacitor Plate page 4
7. Capacitor Plate page 5
8. Outer Utron
9. Trunnion page 1
10. Trunnion page 2
11. Central Accumulator page 1
12. Central Accumulator page 2

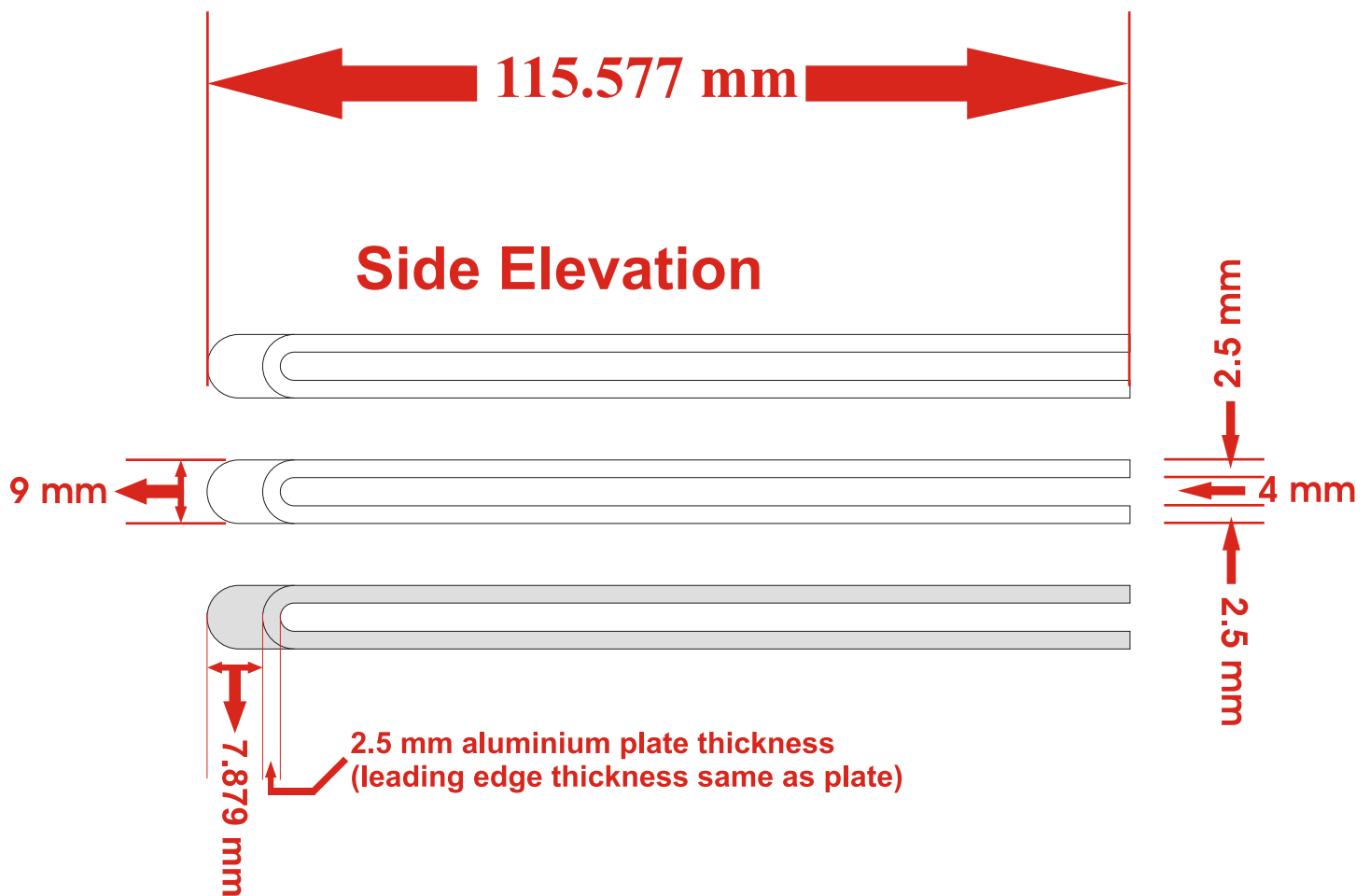
Red lines & text: represent measurement, angular lines of interaction, angular degrees, thickness lines, design lines and technical information / specification.

Black lines: represent actual shape and final component design to be machined.

All drawings are actual size, background page size is A4 or 21 cm x 29.7 cm.

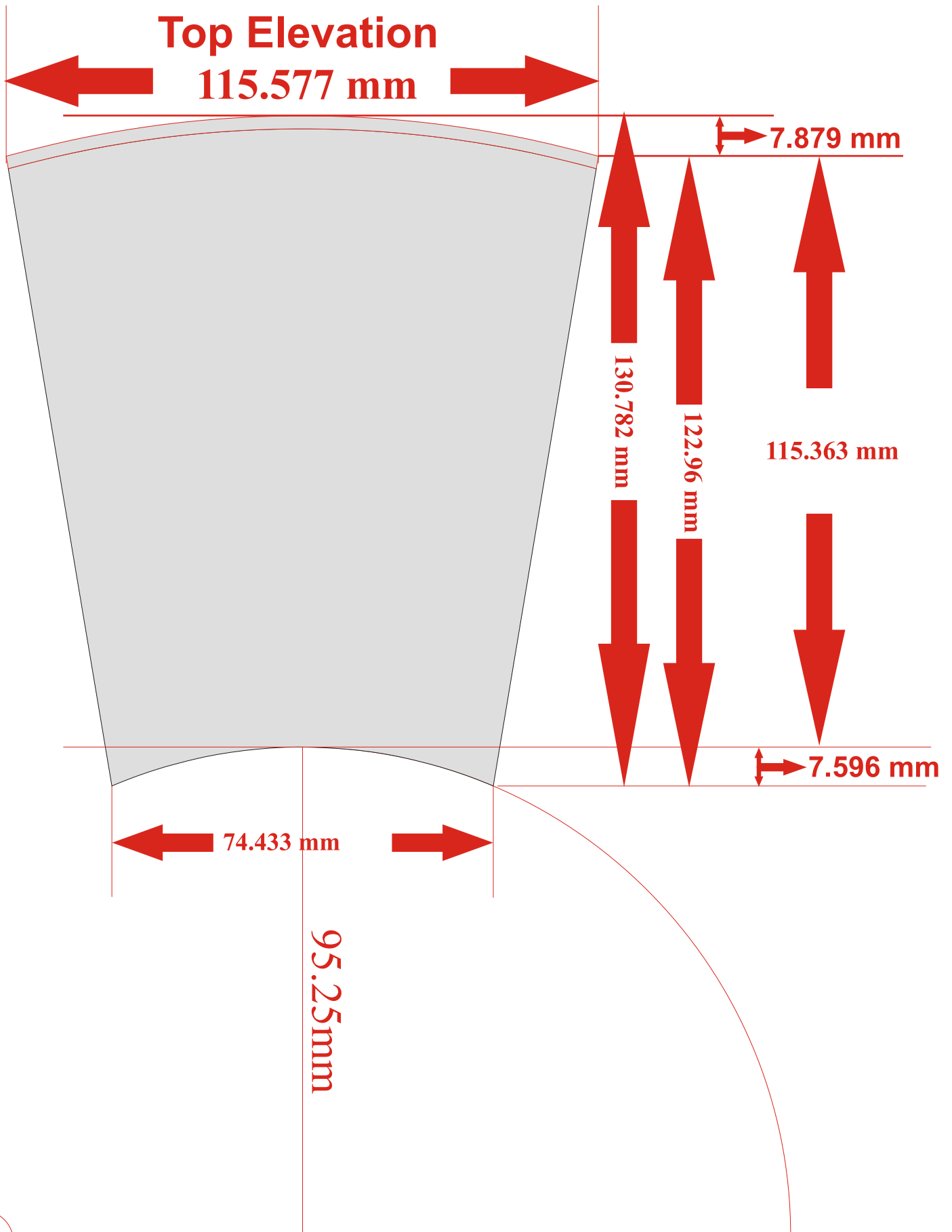
X2 - Capacitor Plate x 6 - pg - 1

(Machine Shop Design Schematic)



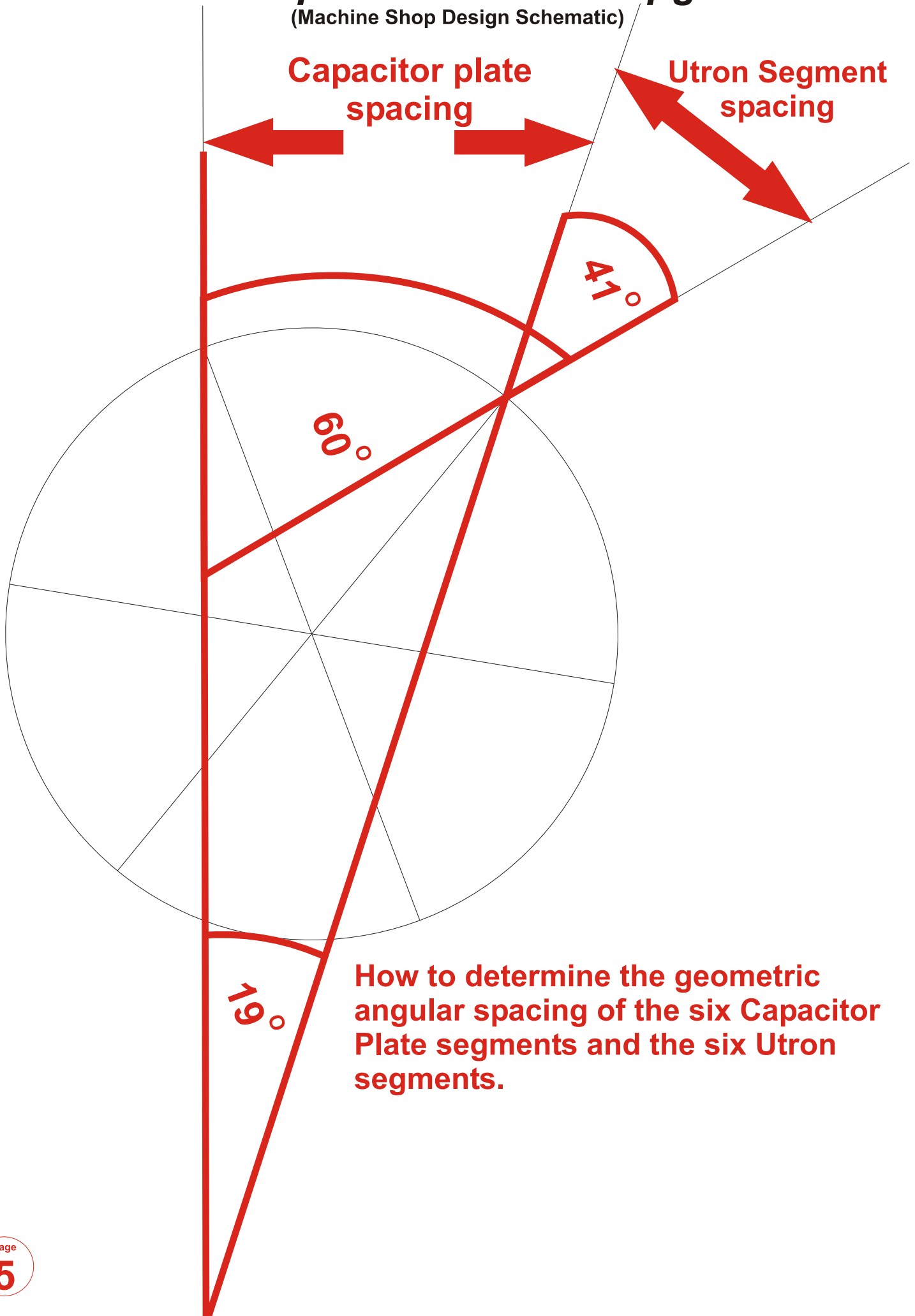
X2 - Capacitor Plate x 6 - pg - 2

(Machine Shop Design Schematic)



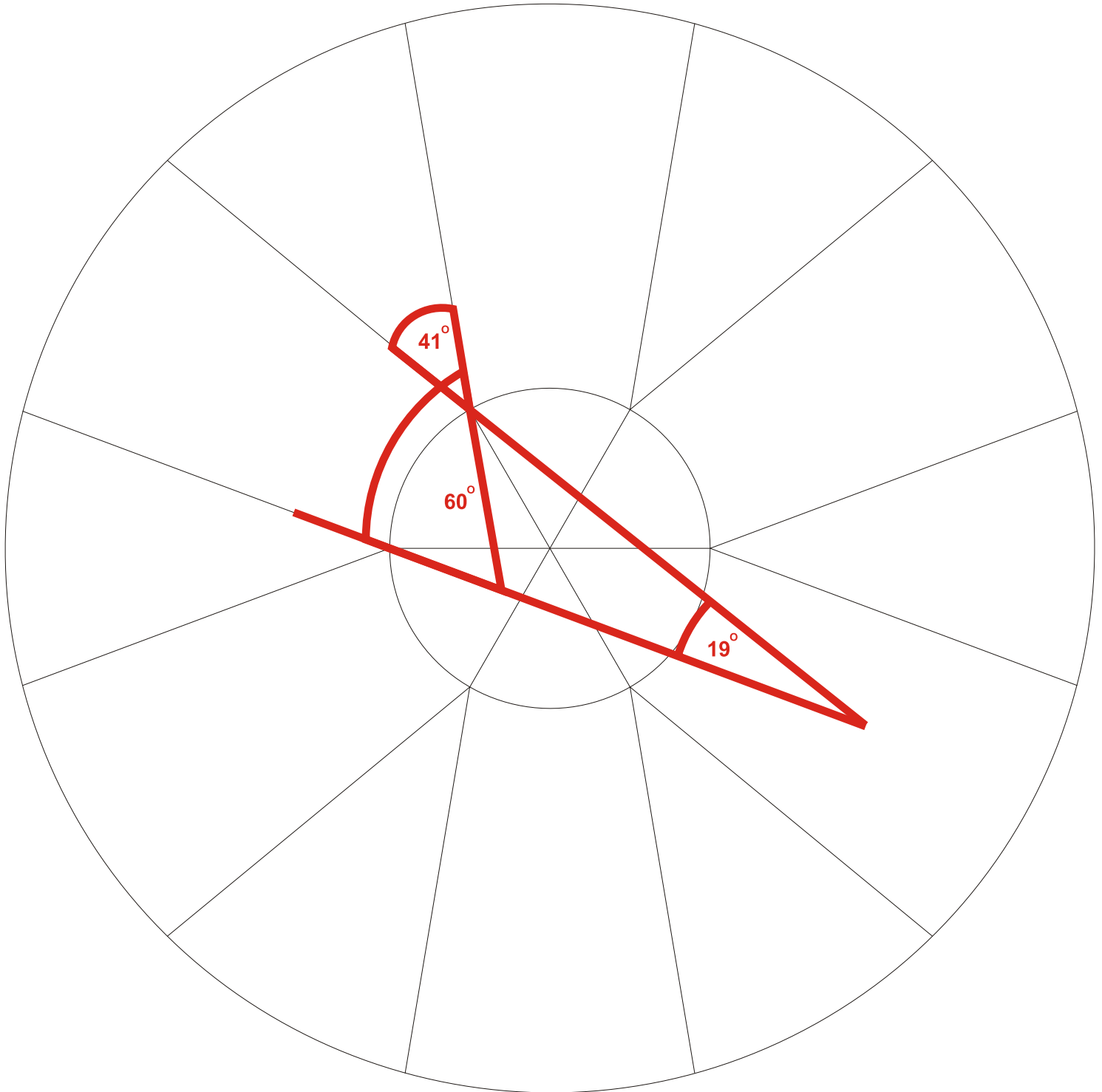
X2 - Capacitor Plate x 6 - pg - 3

(Machine Shop Design Schematic)



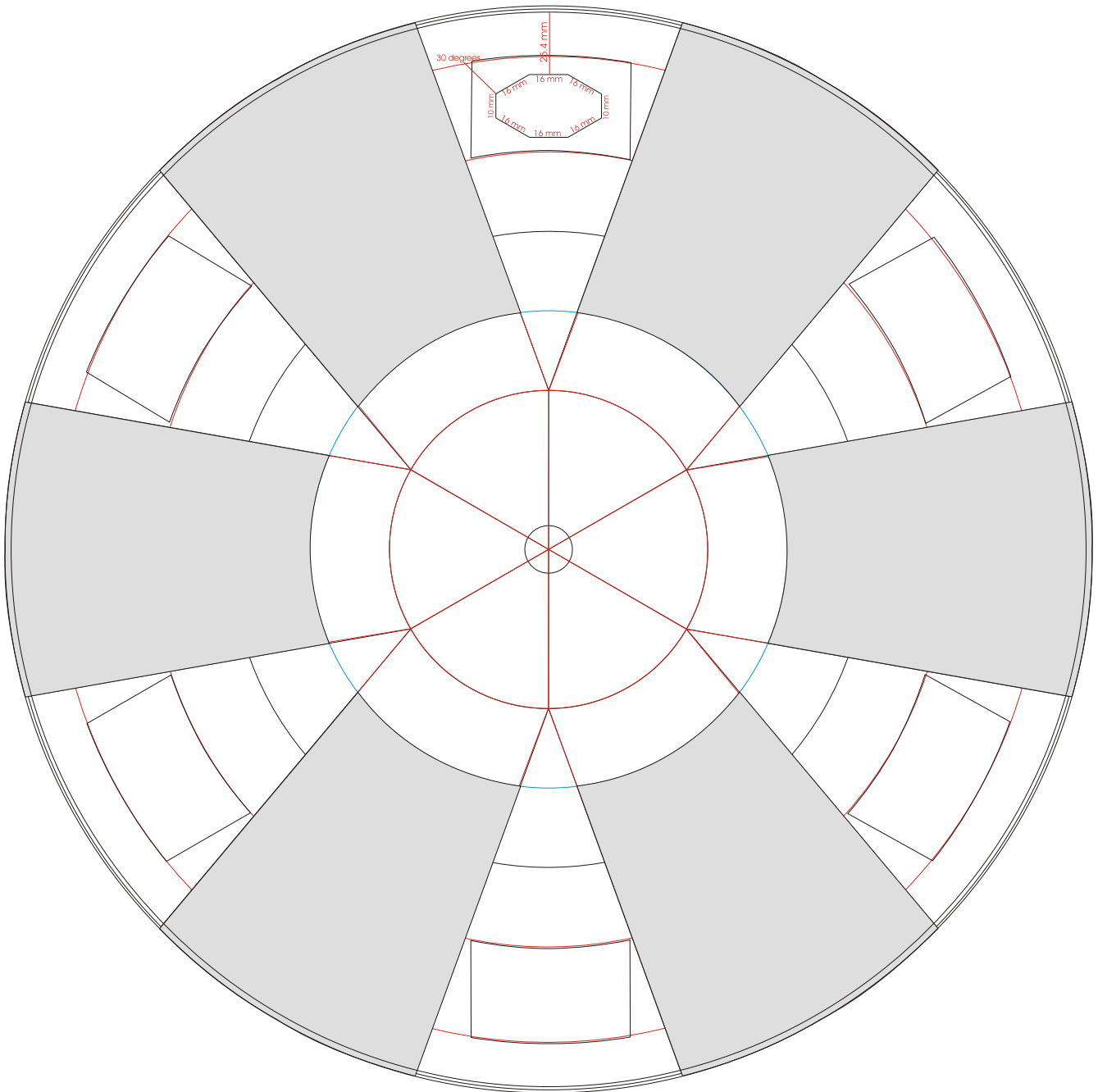
X2 - Capacitor Plate x 6 - pg - 4

(Machine Shop Design Schematic)



X2 - Capacitor Plate x 6 - pg - 5

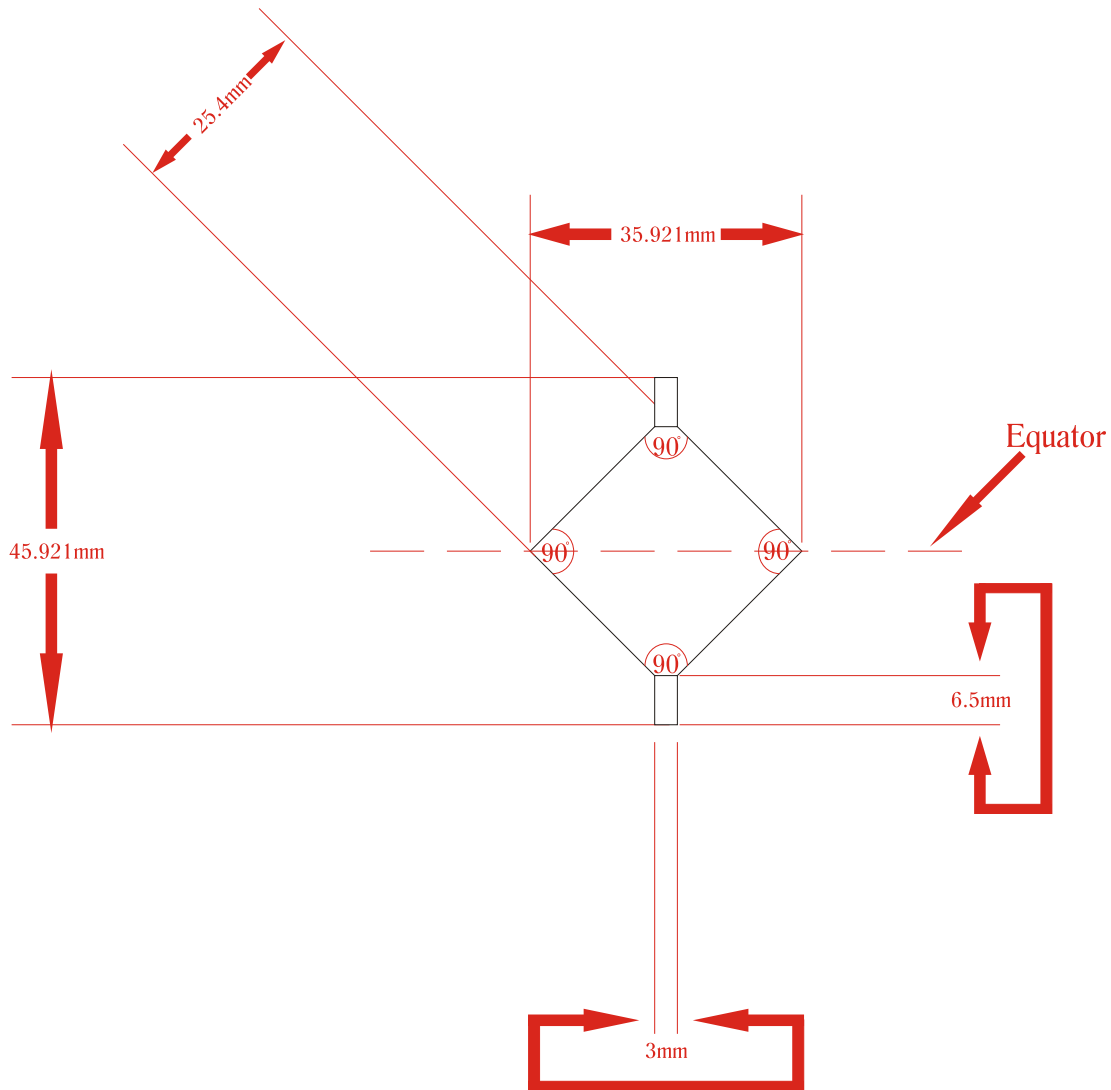
(Machine Shop Design Schematic)



Inner assembly, need circumference adjustment for 2.5mm recess to fit inlayed capacitor plate.

X2 - Outer Utron x 6

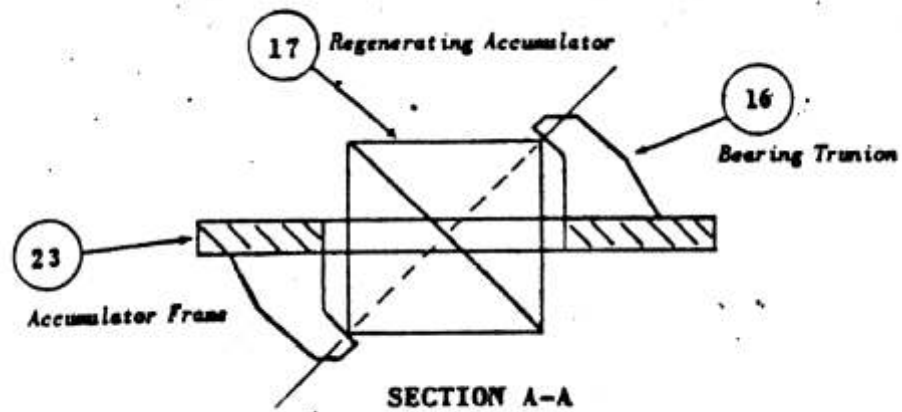
(Machine Shop Design Schematic)



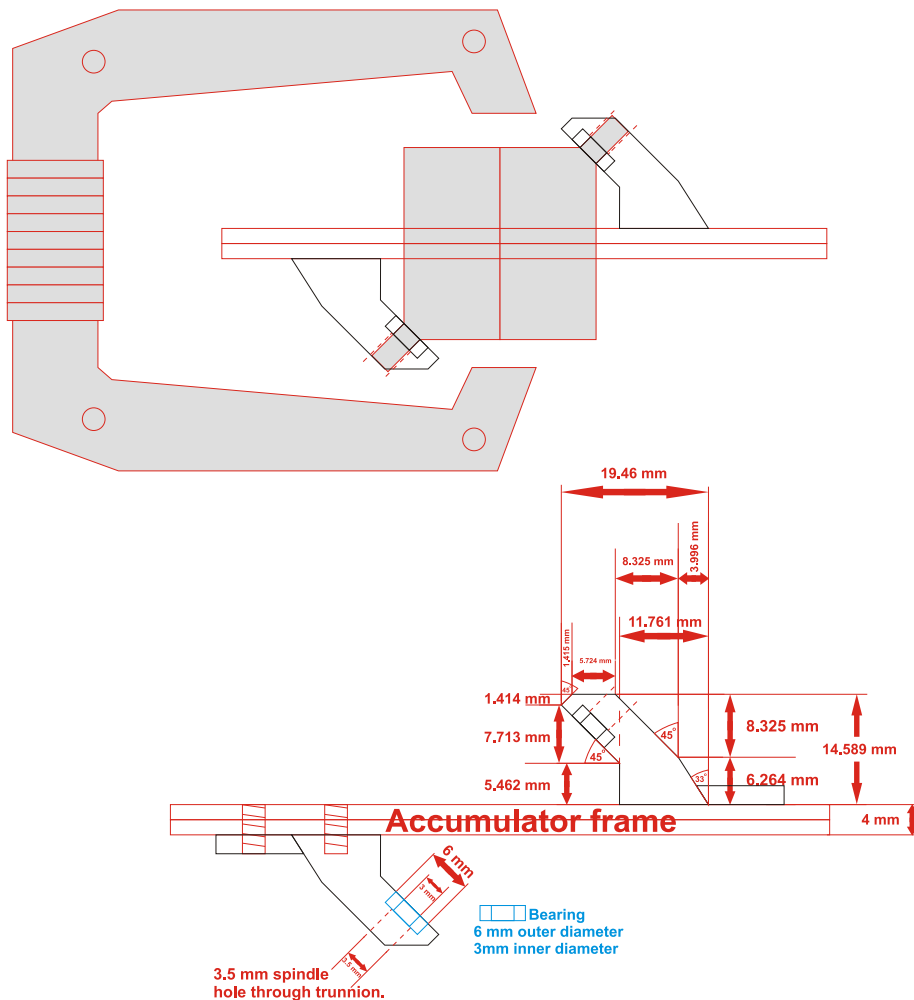
All one piece, double cones including spindle.

X2 - Trunnion x 12 - pg - 1

(Machine Shop Design Schematic)

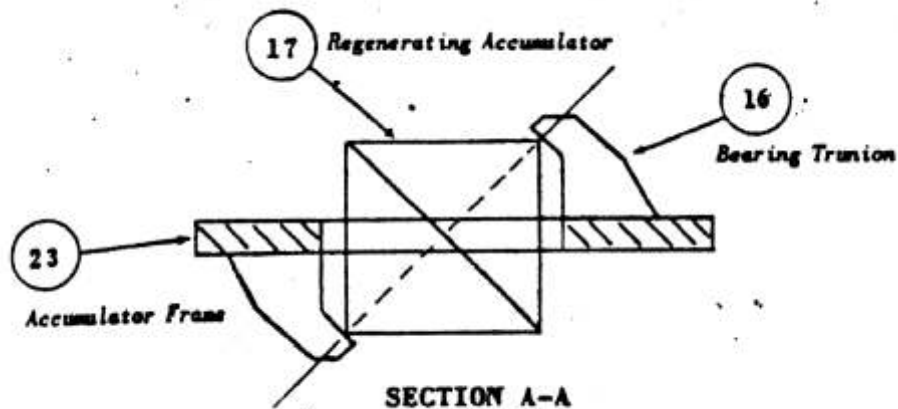


Side elevation

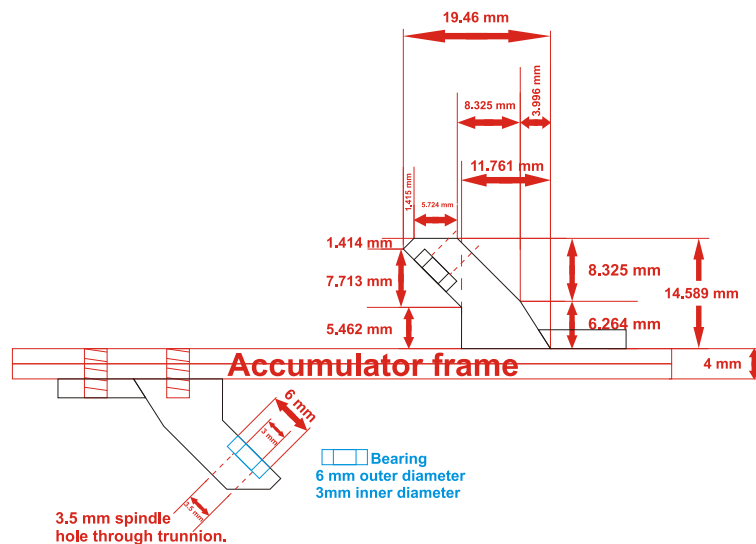


X2 - Trunnion x 12 - pg - 2

(Machine Shop Design Schematic)



Side elevation



Trunnion Bearing



Outer diameter
W - 6 mm x H - 2 mm
Center hole
W - 3mm x H - 2mm.

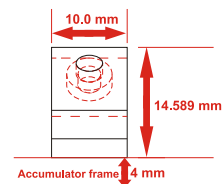


W - 3.5mm hole on top of bearing through trunnion, in counter - sunk arrangement with bearing, for the Utron spindle to fit in and free spin.

Side elevation

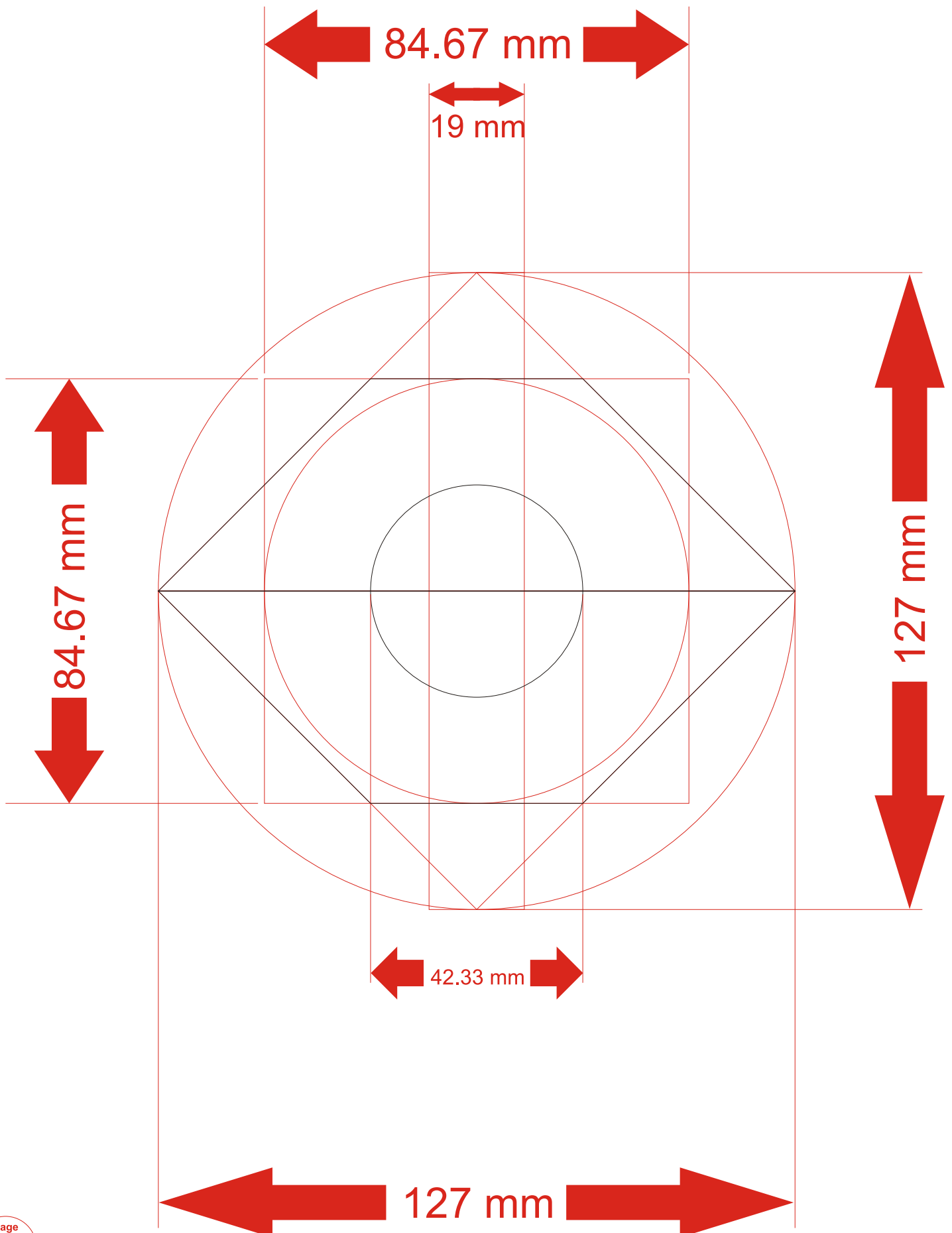


End elevation



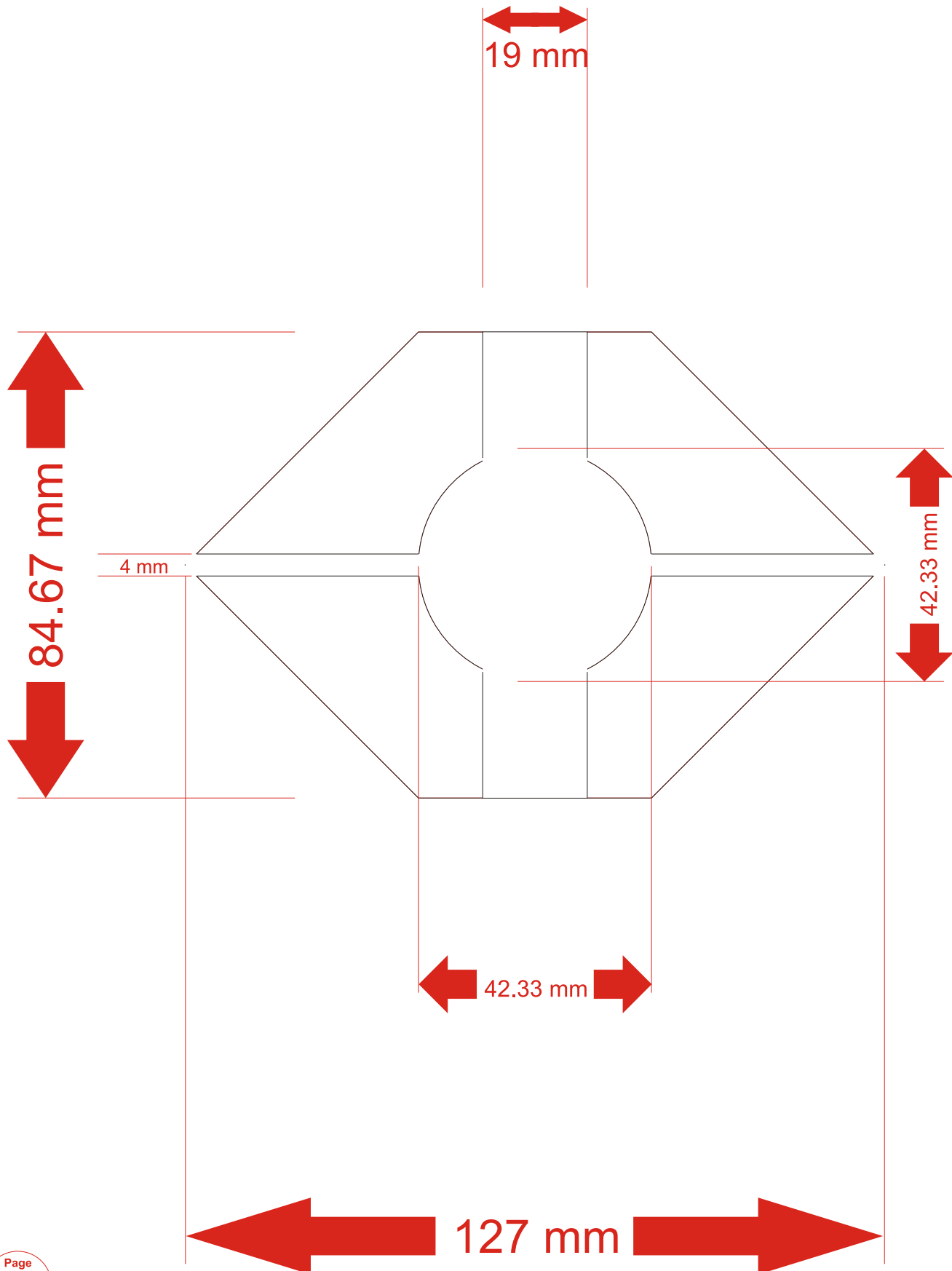
X2 - Central Accumulator - pg - 1

(Machine Shop Design Schematic)



X2 - Central Accumulator - pg - 2

(Machine Shop Design Schematic)



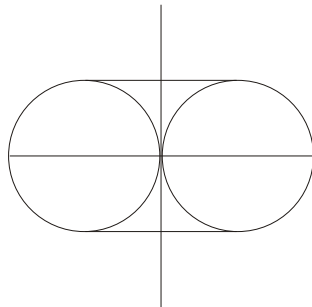
Cover Page

External 'Counter - Clockwise' Rotating Frame Work Assembly

'X2' Prototype Part Construction

Workshop Schematics

6 (six) pages including cover page



Contents

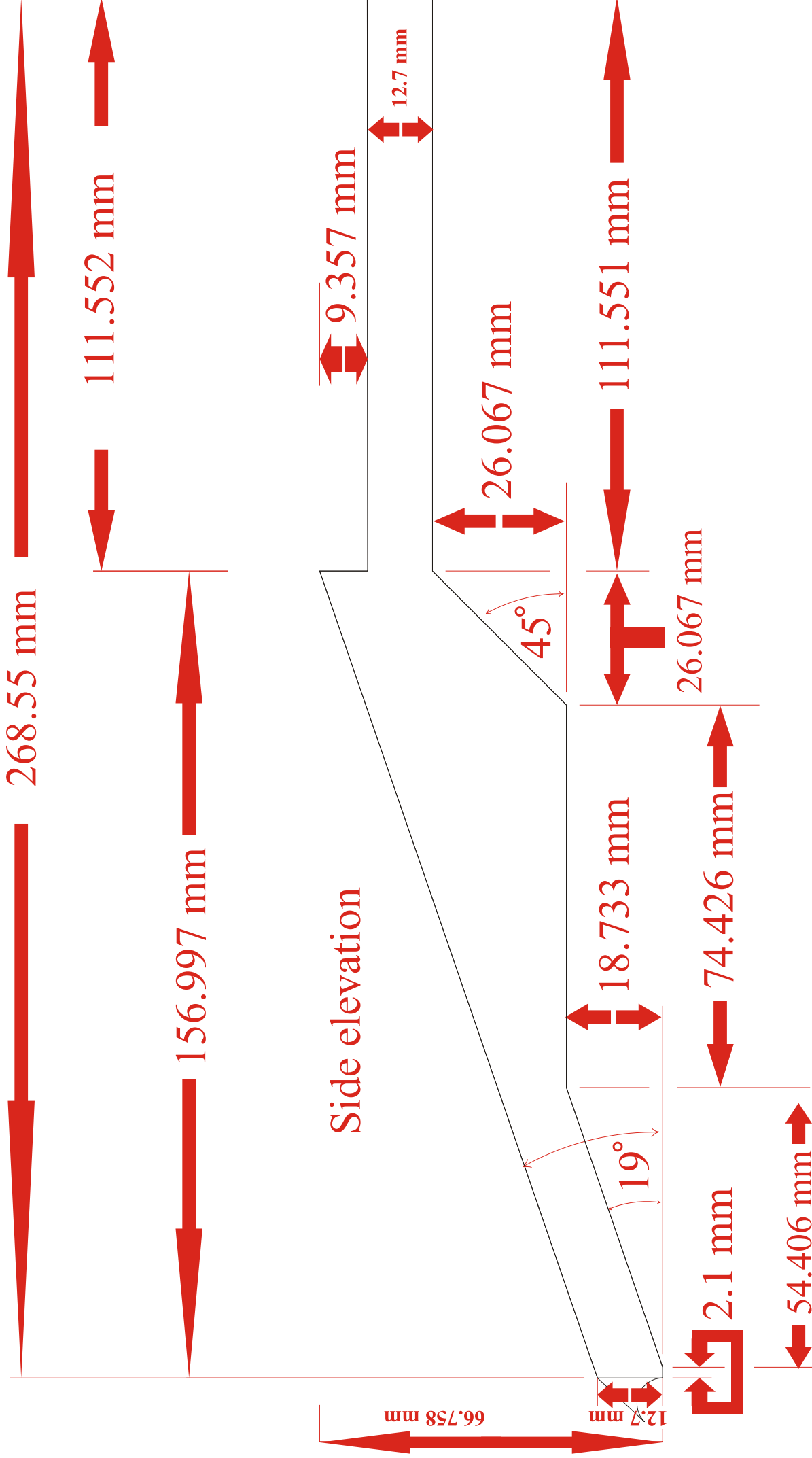
- 13. Cover Page
- 14. Contents
- 15. Top Rib
- 16. Bottom Rib
- 17. 'C' Magnet
- 18. Landing Gear

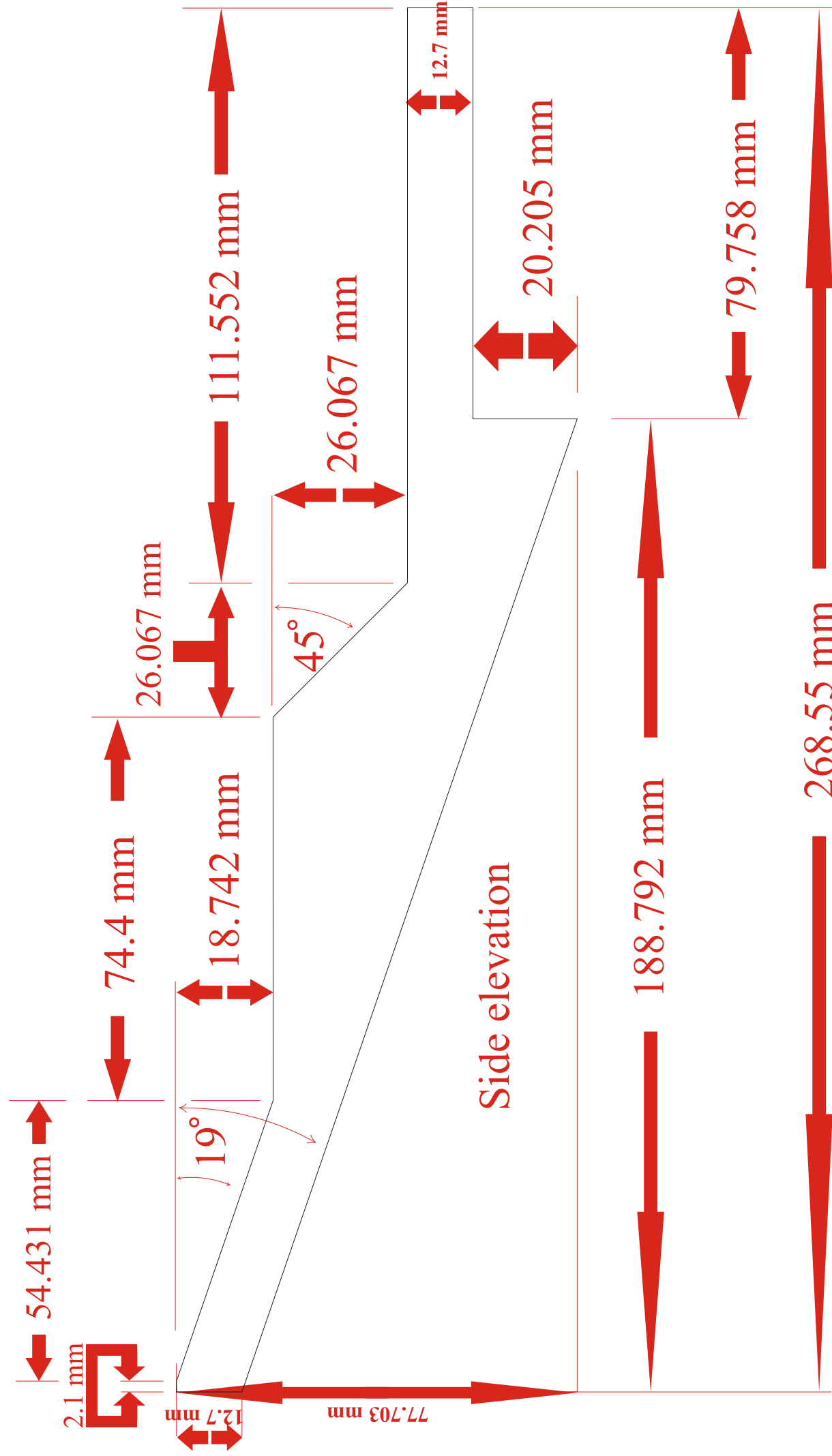
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X2 - Hull (Top Rib / Cab Support) x 12 (Machine Shop Design Schematic)





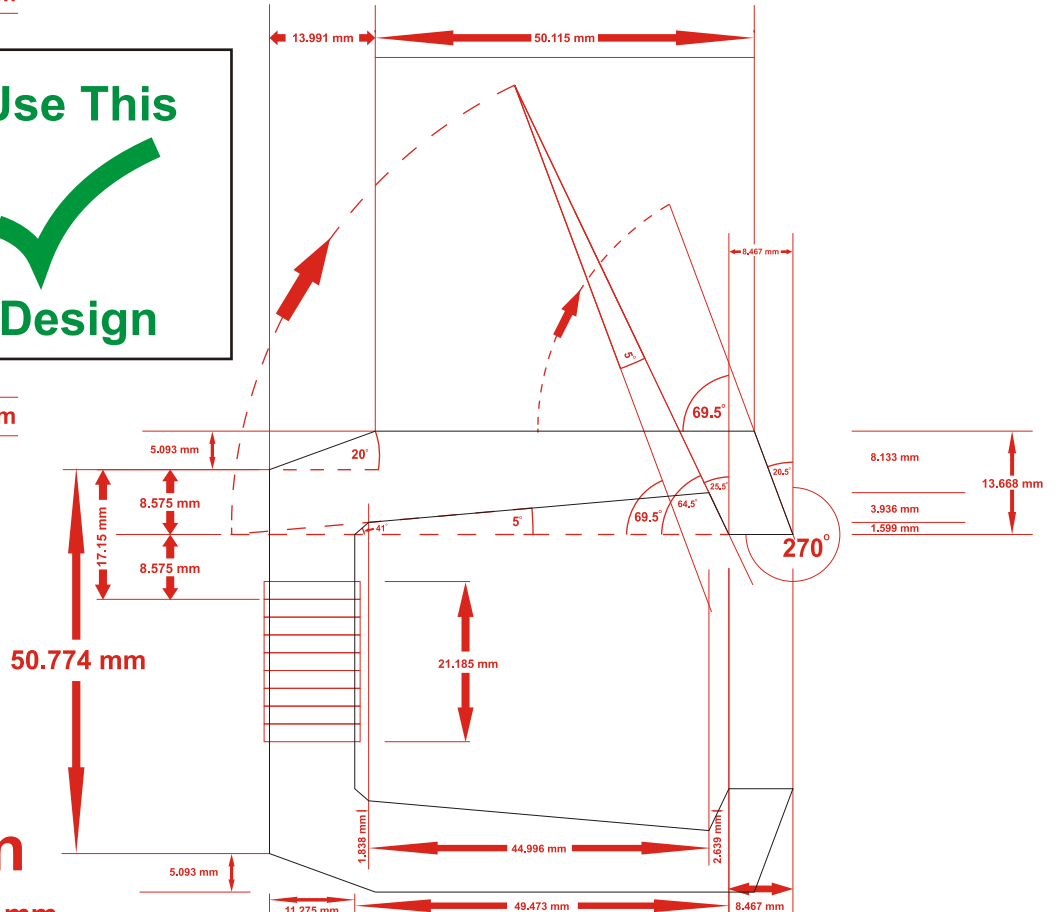
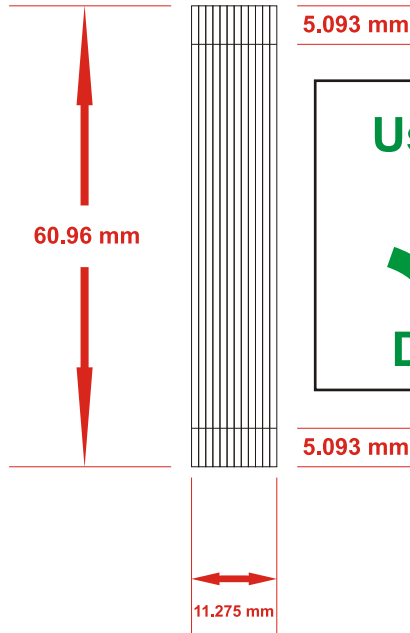
(Machine Shop Design Schematic)

(Machine Shop Design Schematic)

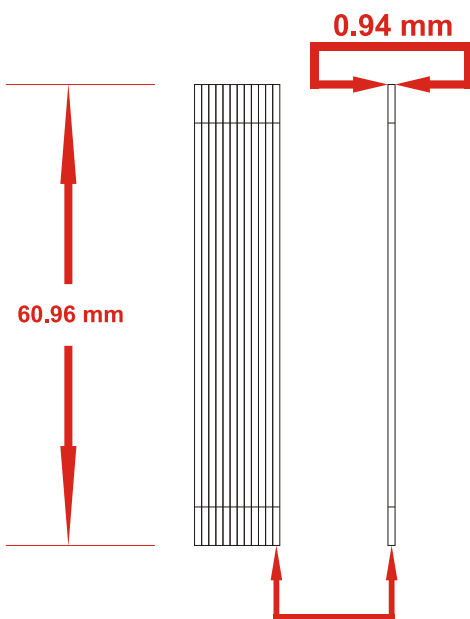
Side Elevation

(full measurement / angles for 'one [1]' plate constructed in one piece.
All plates are identical and each constructed in 'one [1]' piece. This
design is for a one piece magnet, with the coil being wound onto the magnet)

End Elevation



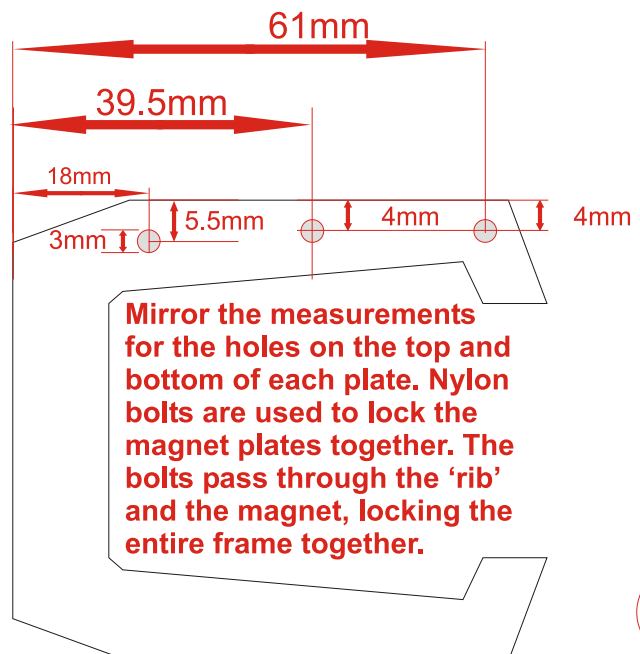
End Elevation



Magnet holes

(Machine Shop Design Schematic)

(Machine Shop Design Schematic)

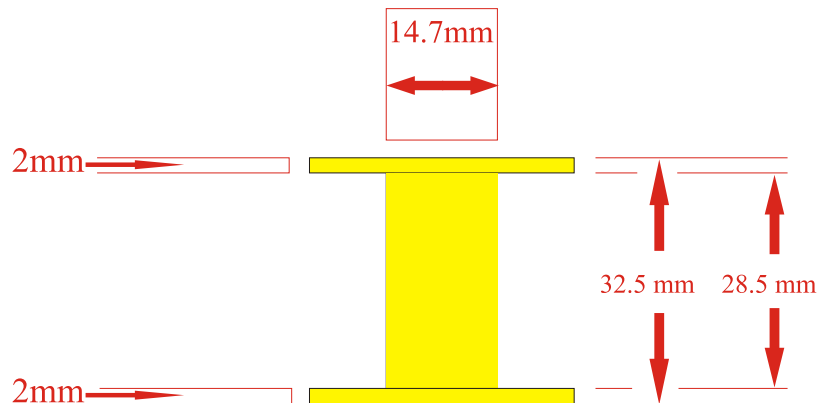


The above diagram represents the 'end elevation' of 'one (1)' plate, which together with the other 'eleven (11)' identical plates form a set, which intern, forms 'one (1)' complete magnet.

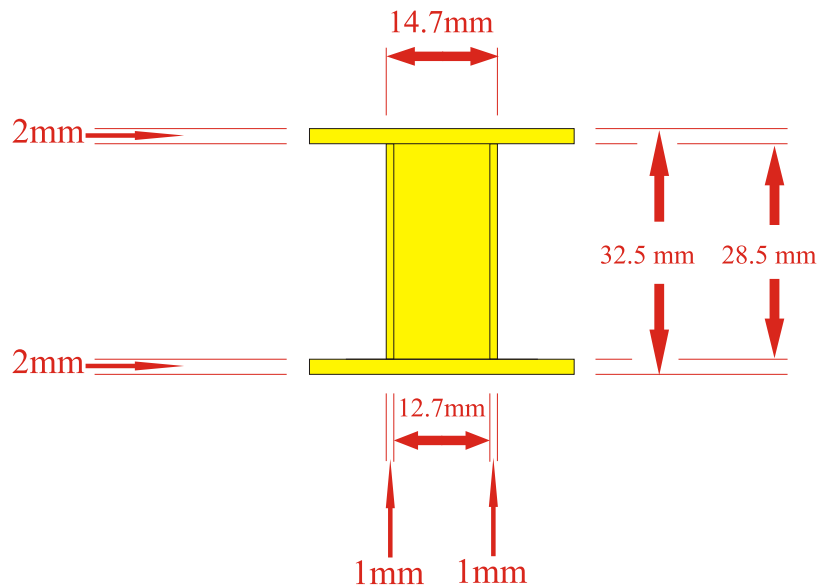
X2 - 'C' Magnet Former x 12

(Machine Shop Design Schematic)

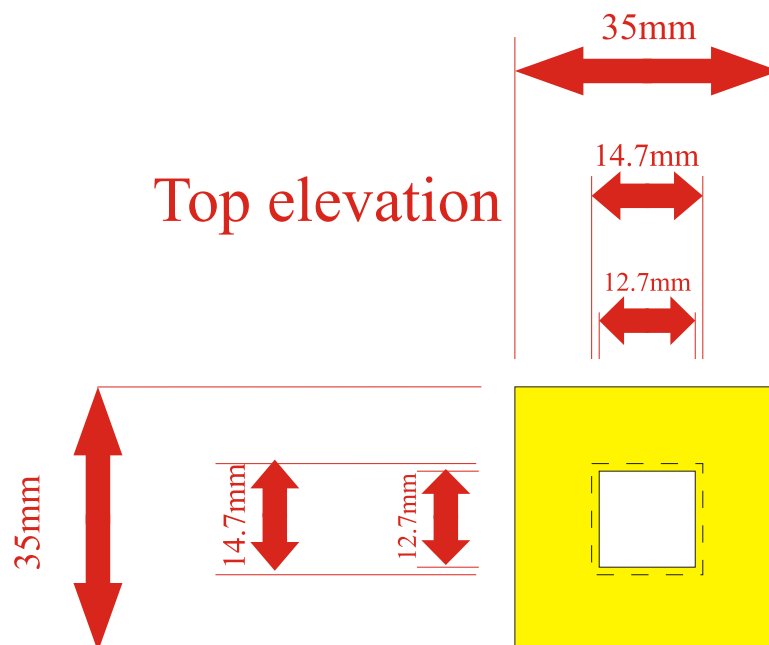
Side elevation



Side cut through elevation



Top elevation

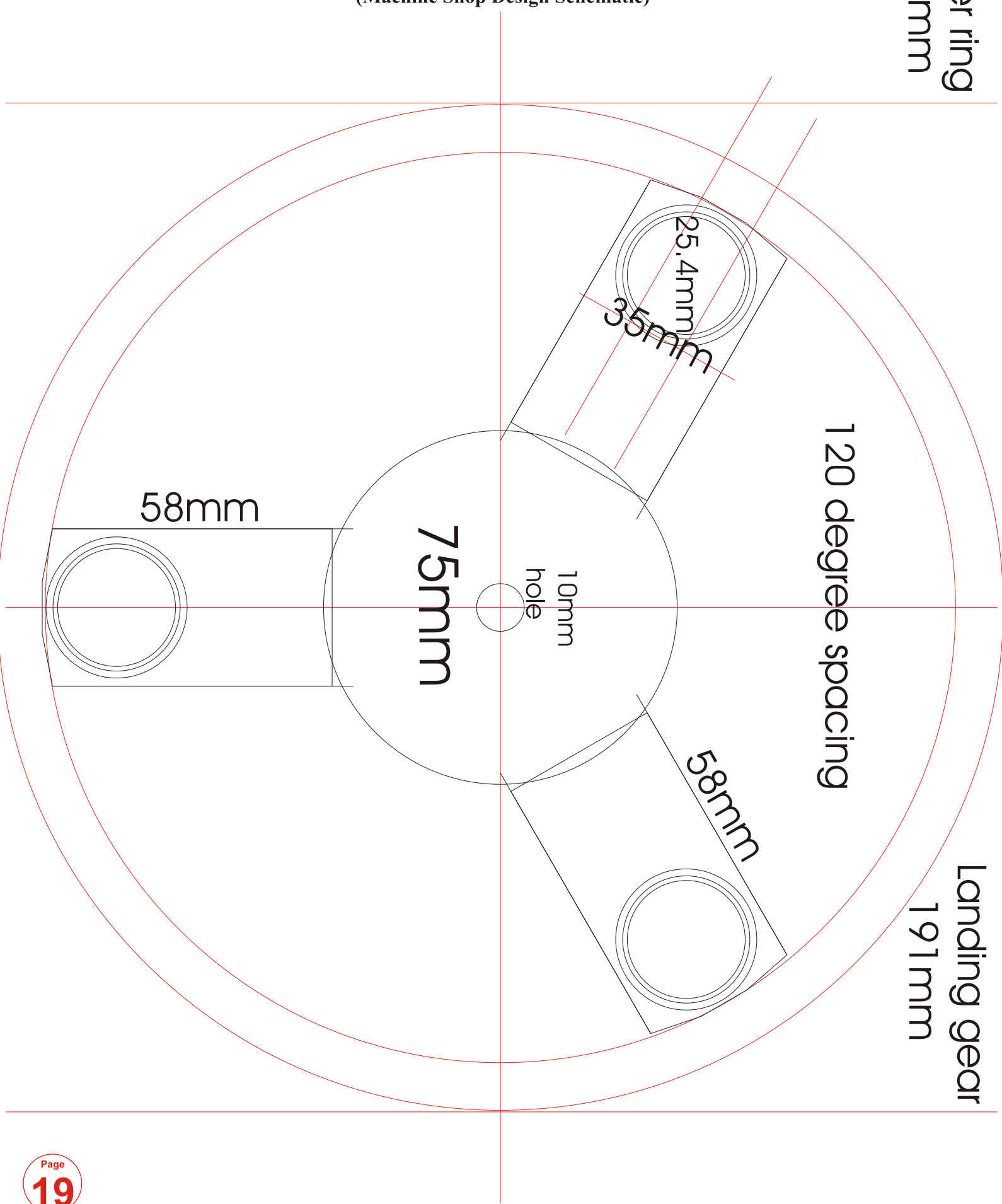


Outer ring
211mm

X2 - Landing Gear - page 1

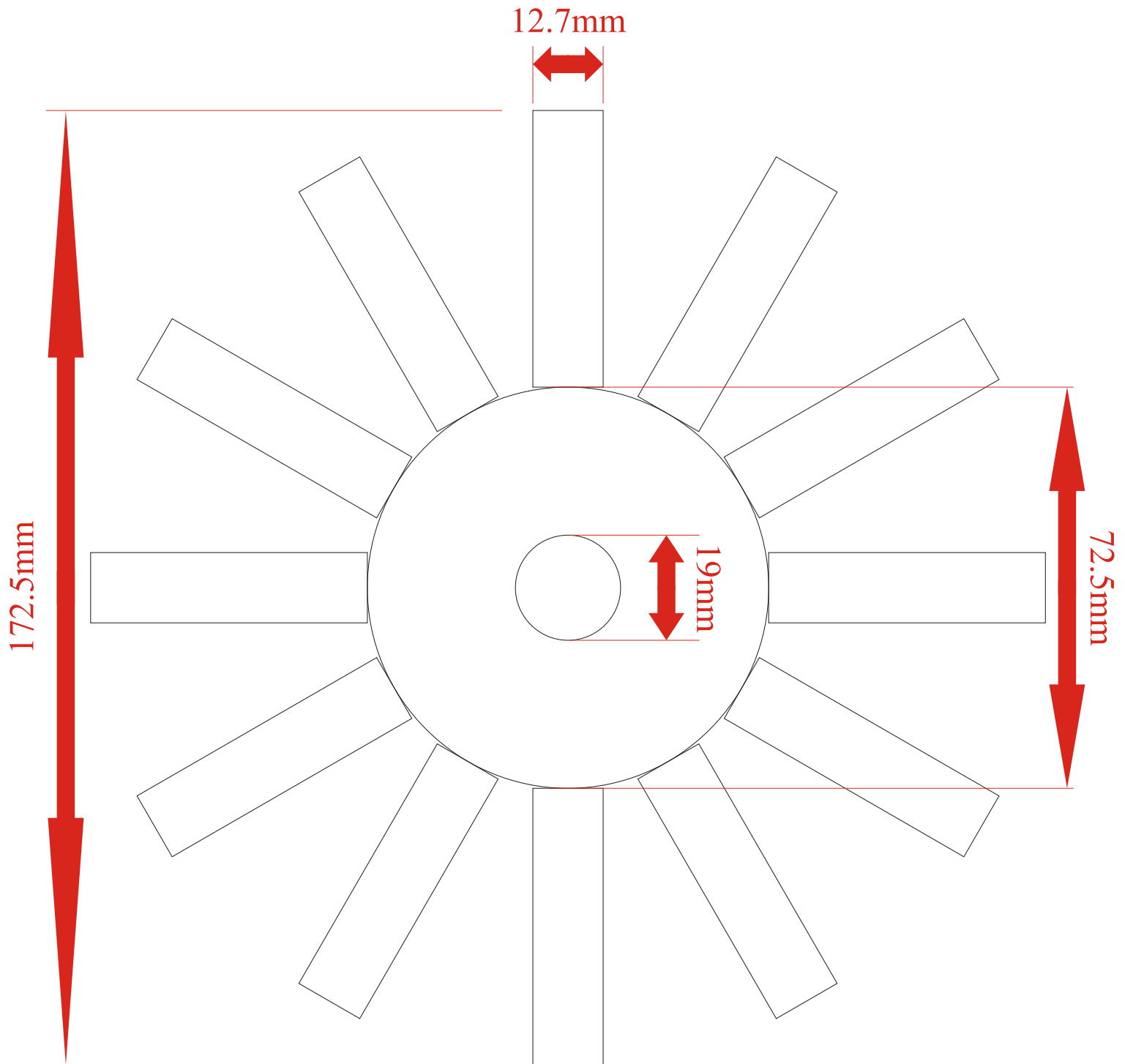
(Machine Shop Design Schematic)

Landing gear
191mm



X2 - Keystone

(Machine Shop Design Schematic)



This is the piece that all of the rib sections join to. The hole through the center is for the 19mm bearing. This can be printed out and used as a template if you are making this piece from balsa or ply etc.

