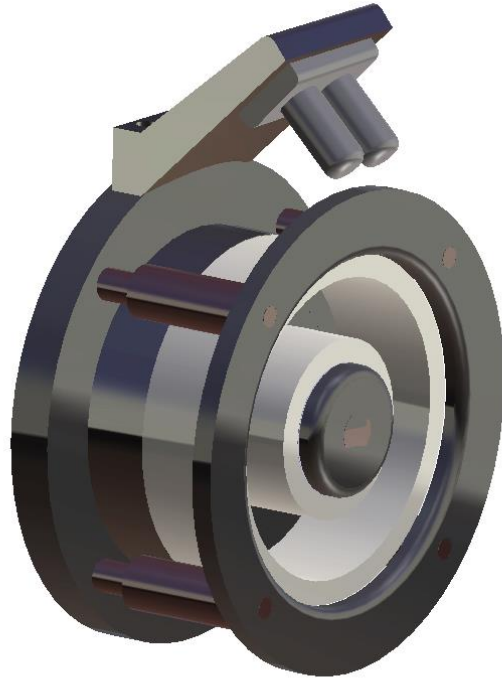


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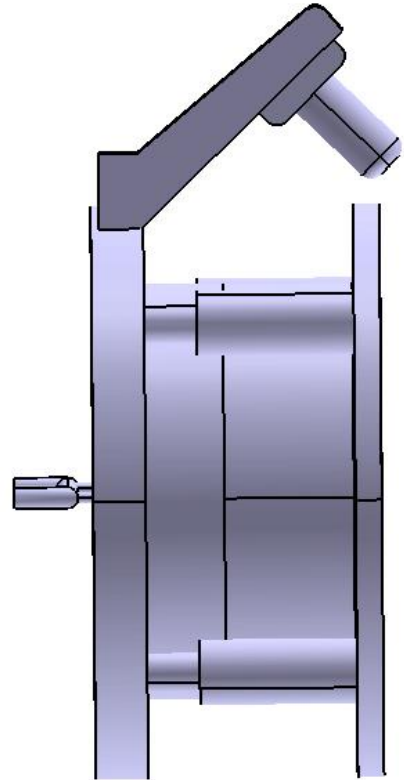
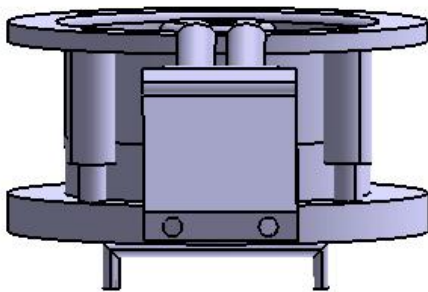
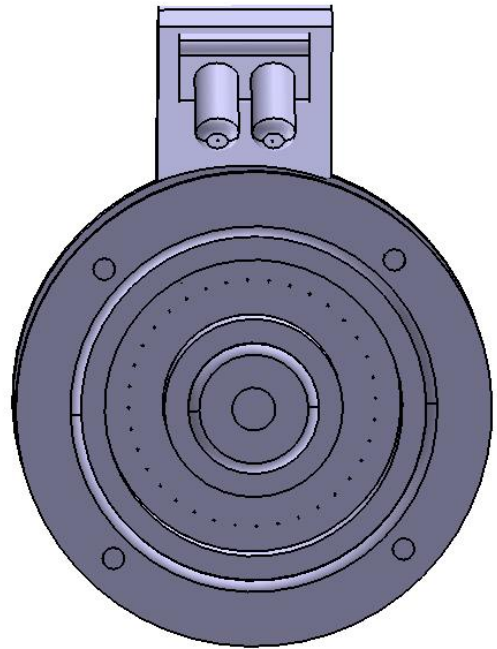
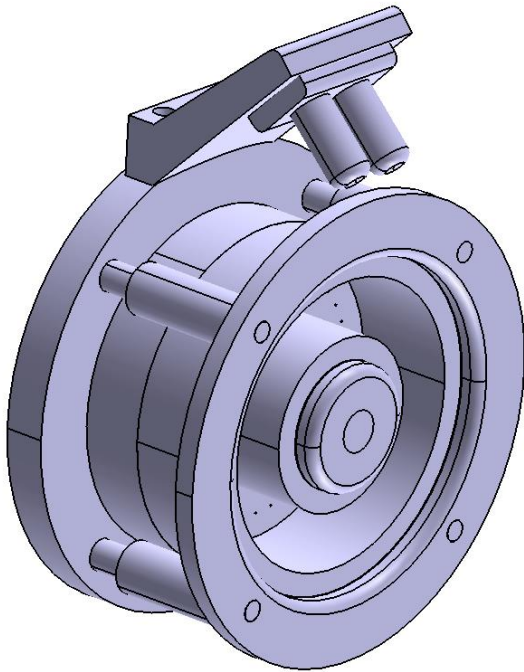
# HALL-EFFECT THRUSTER

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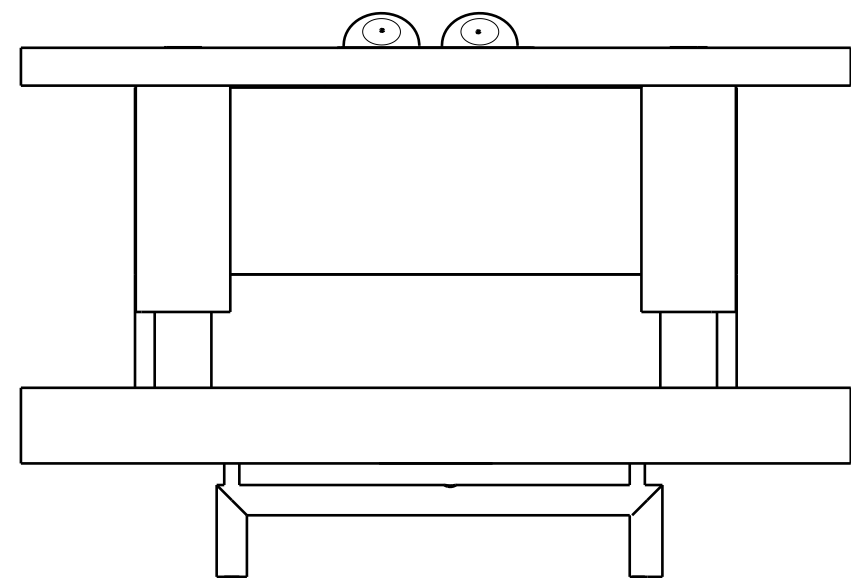
THRUSTER CAD MODEL & COMPONENTS DRAFT

## FINAL ASSEMBLY

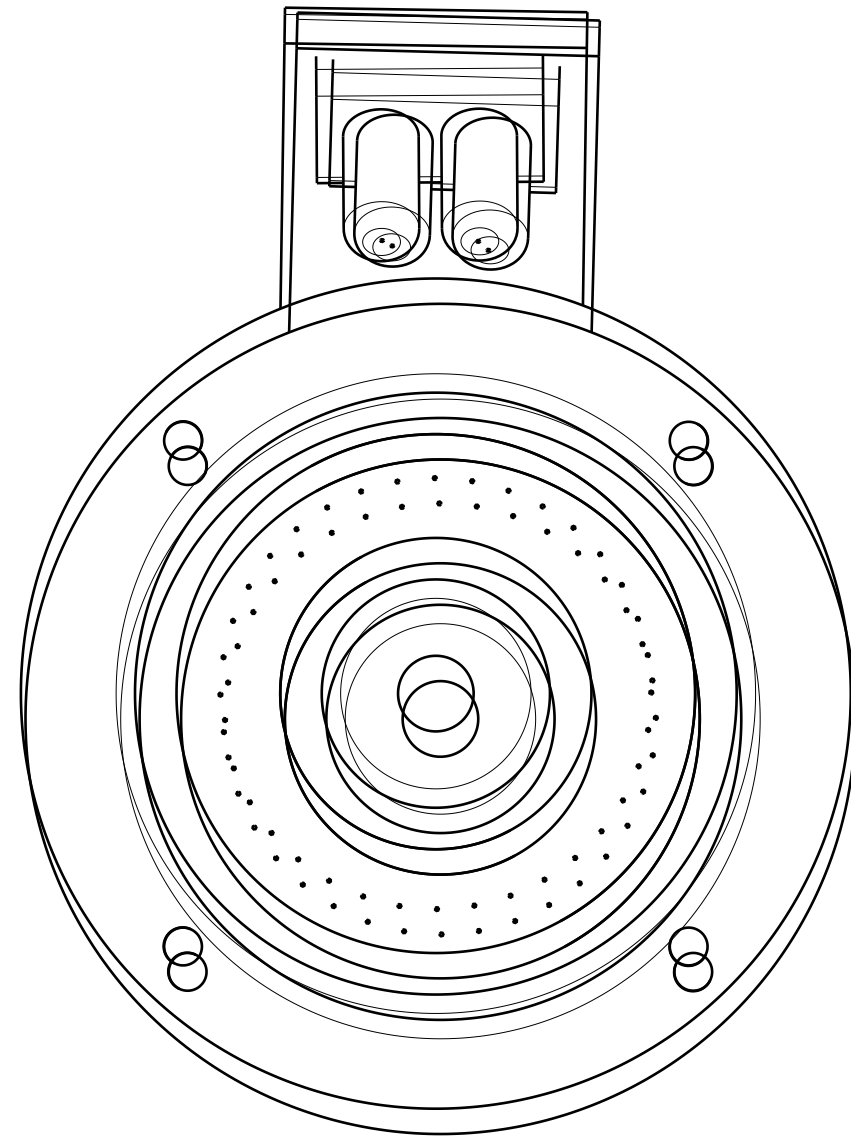


# THRUSTER COMPONENTS DRAFTING

Note: All dimensions are in mm



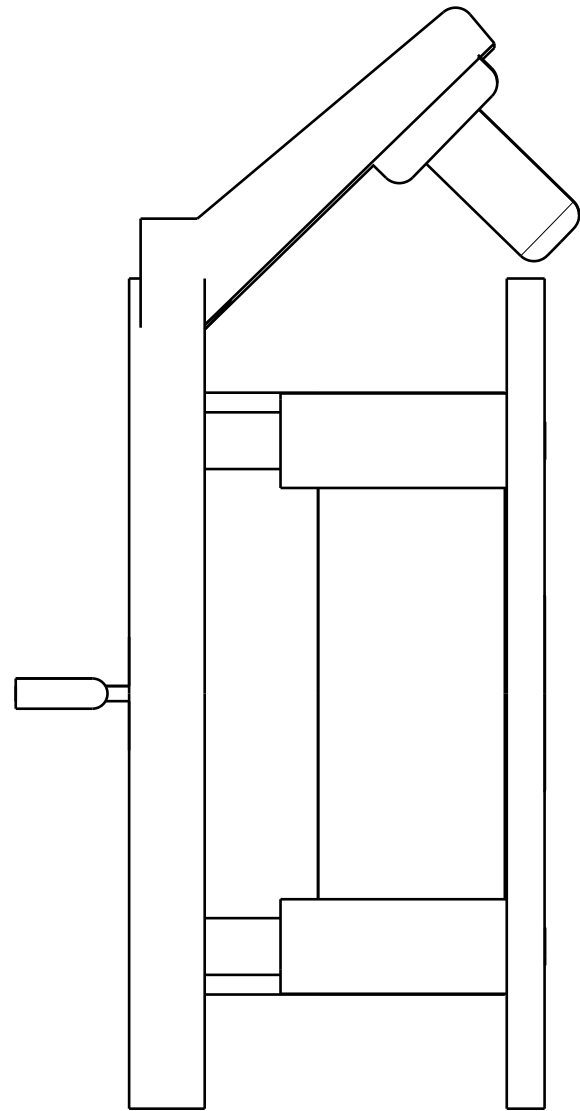
Bottom view  
Scale: 1:2



Front View  
Scale: 1:2

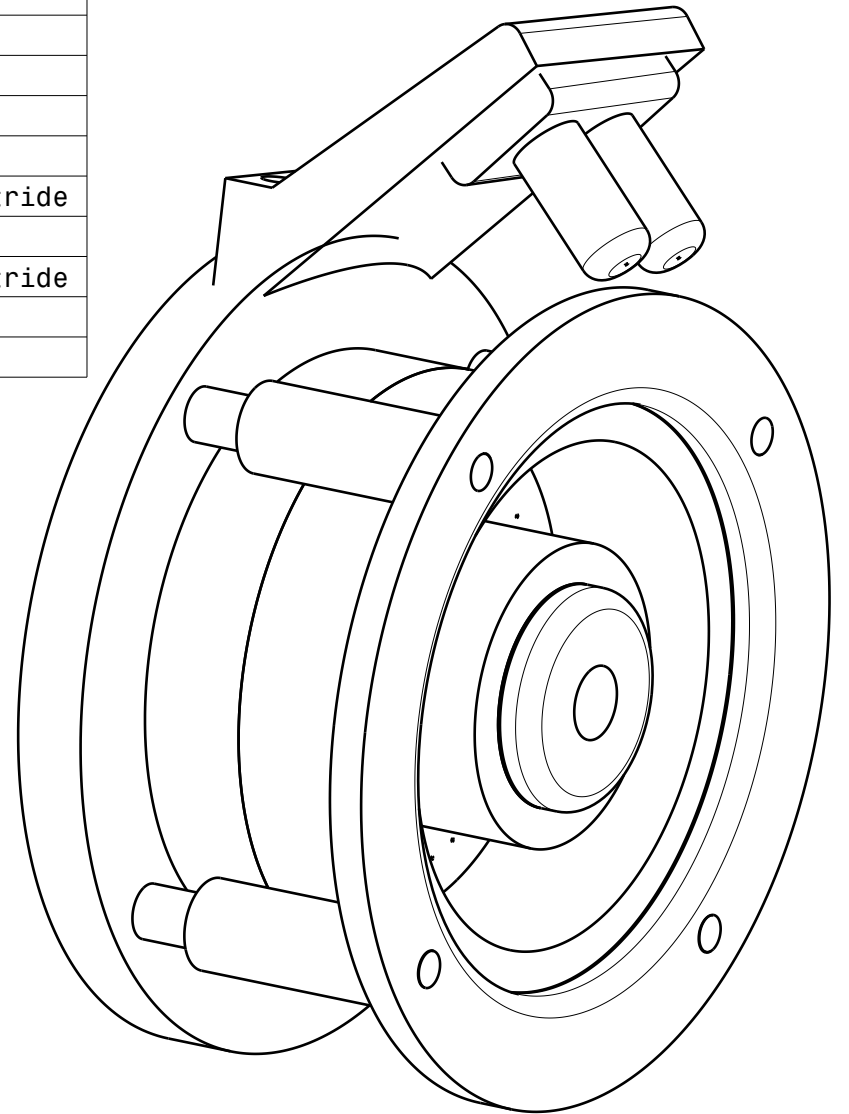
Bill of Material: HALL THRUSTER

Quantity	Part Number	Nomenclature	Definition
1	Part9	Anode Front cover	Stainless Steel
1	Part8	Anode Gas inlet	Stainless Steel
1	Part3	Back Base	Stainless Steel
1	Part11	Base Anode stand	Stainless Steel
1	Part13	Cathode Stand	Stainless Steel
1	Part10	centre core cover	Stainless Steel
1	Part2	Front Inner ring	Stainless Steel
1	Part1	Front Outer ring	Stainless Steel
1	Part14	Hollow Cathode tube	Stainless Steel
1	Part5	Inner Ceramic ring	Ceramic Boron Nitride
1	Part7	Inner EM Coil	Soft Iron
1	Part4	Outer Ceramic ring	Ceramic Boron Nitride
1	Part12	Tube connector	Stainless Steel
4	Part6	Outer EM Coil1	Soft Iron



Left view  
Scale: 1:2

Isometric view  
Scale: 1:2



This drawing is our property. It can't be reproduced or communicated without our written agreement.		HALL TRUSTER			
		DRAWING TITLE      PROTOTYPE			
DRAWN BY MSRUAS	DATE 14-11-2022	SIZE A3	DRAWING NUMBER DESIGN 1 - PROTOTYPE		REV X
CHECKED BY XXX	DATE xxx	SCALE 1:2	WEIGHT (kg) 2.31	SHEET    1/1	
DESIGNED BY XXX	DATE xxx				

4

4

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H G F E D C B A

131.22 ±0.05

5

Front view  
Scale: 1:2

Right view  
Scale: 1:1

Rear view  
Scale: 1:1

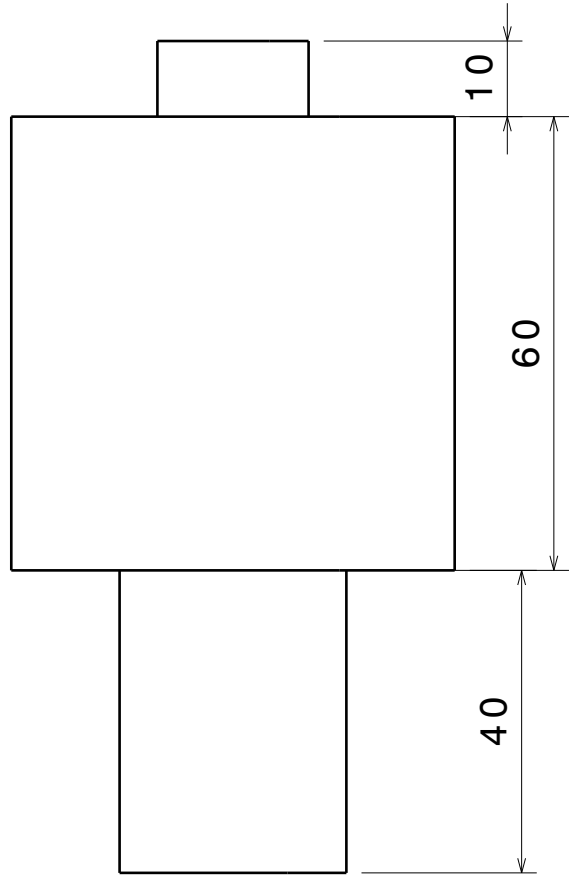
Isometric view  
Scale: 1:1

Part name	Material used
Anode front cover	Stainless steel

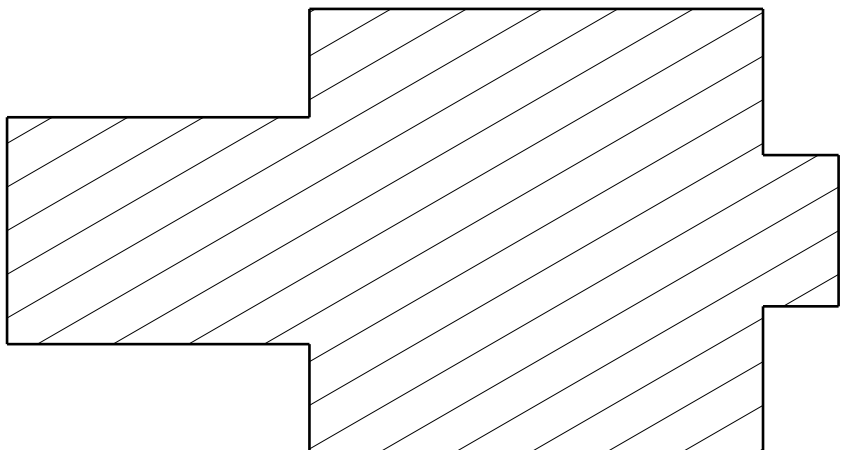
This drawing is our property. It can't be reproduced or communicated without our written agreement.		Anode front cover			
		DRAWING TITLE			
DRAWN BY MSRUAS	DATE 15-11-2022	Design			
CHECKED BY XXX	DATE xxx	SIZE A3	DRAWING NUMBER 9		REV X
DESIGNED BY XXX	DATE xxx	SCALE 1:1	WEIGHT (kg) 0.10		SHEET 1/1

H G

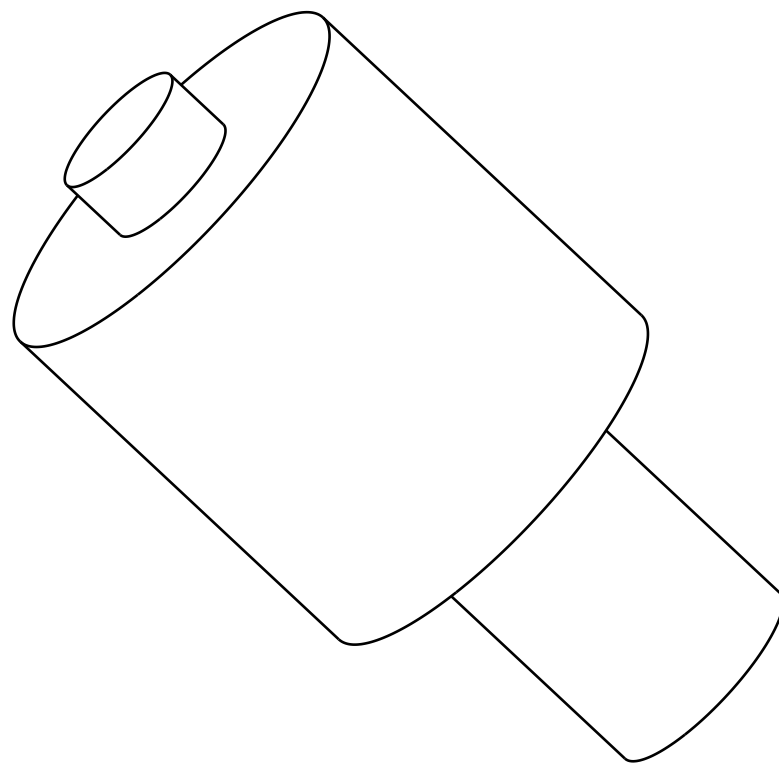




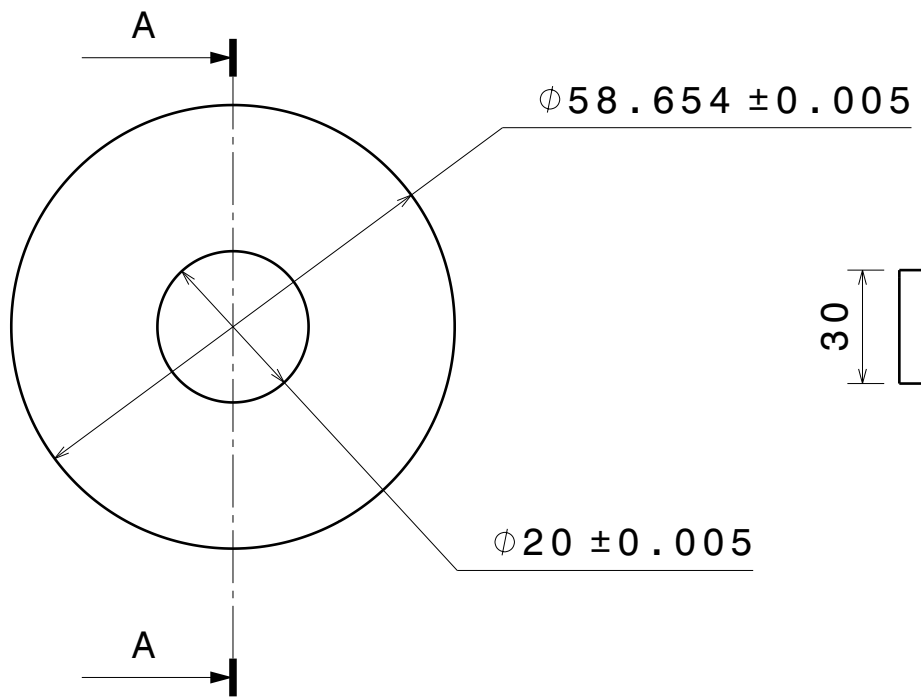
Bottom view  
Scale: 1:1



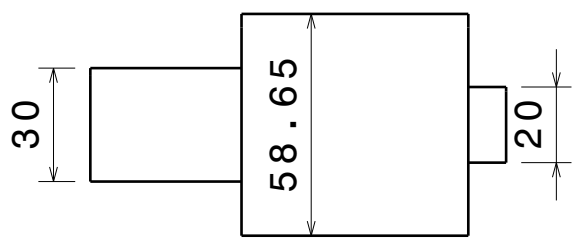
Section view A-A  
Scale: 1:1



Isometric view  
Scale: 1:1



Front view  
Scale: 1:1



Left view  
Scale: 1:2

Part Name	Material Used
Inner EM coil	Soft iron

This drawing is our property. It can't be reproduced or communicated without our written agreement.				Inner EM coil			
				Material			
DRAWN BY MSRUAS		DATE 15-11-2022		DESIGN			
CHECKED BY XXX		DATE XXX		SIZE A3	DRAWING NUMBER Part7		
DESIGNED BY XXX		DATE XXX		SCALE 1:1	WEIGHT (kg) 0.00		SHEET 1/1

H G F E D C B A

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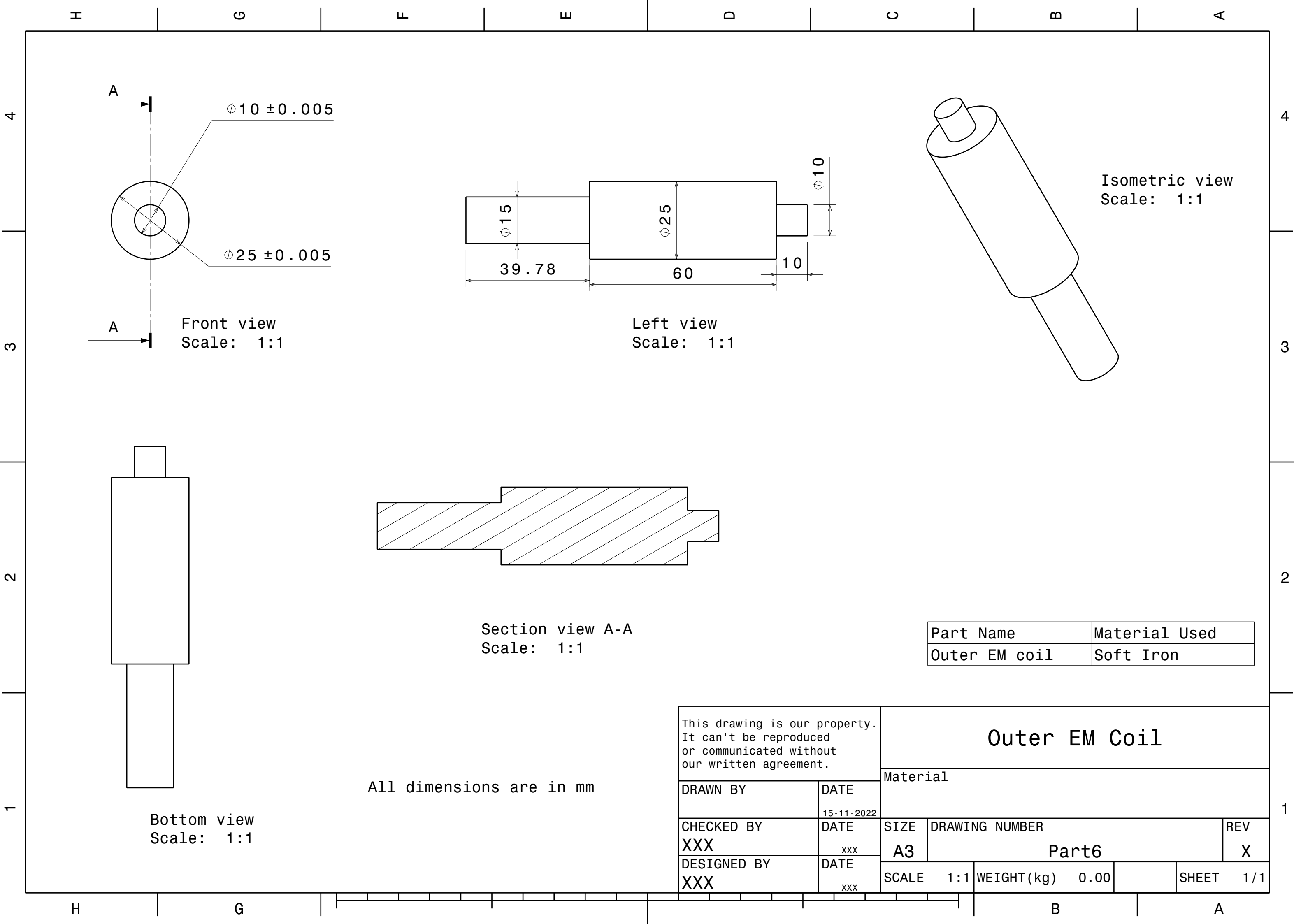
H G F E D C B A

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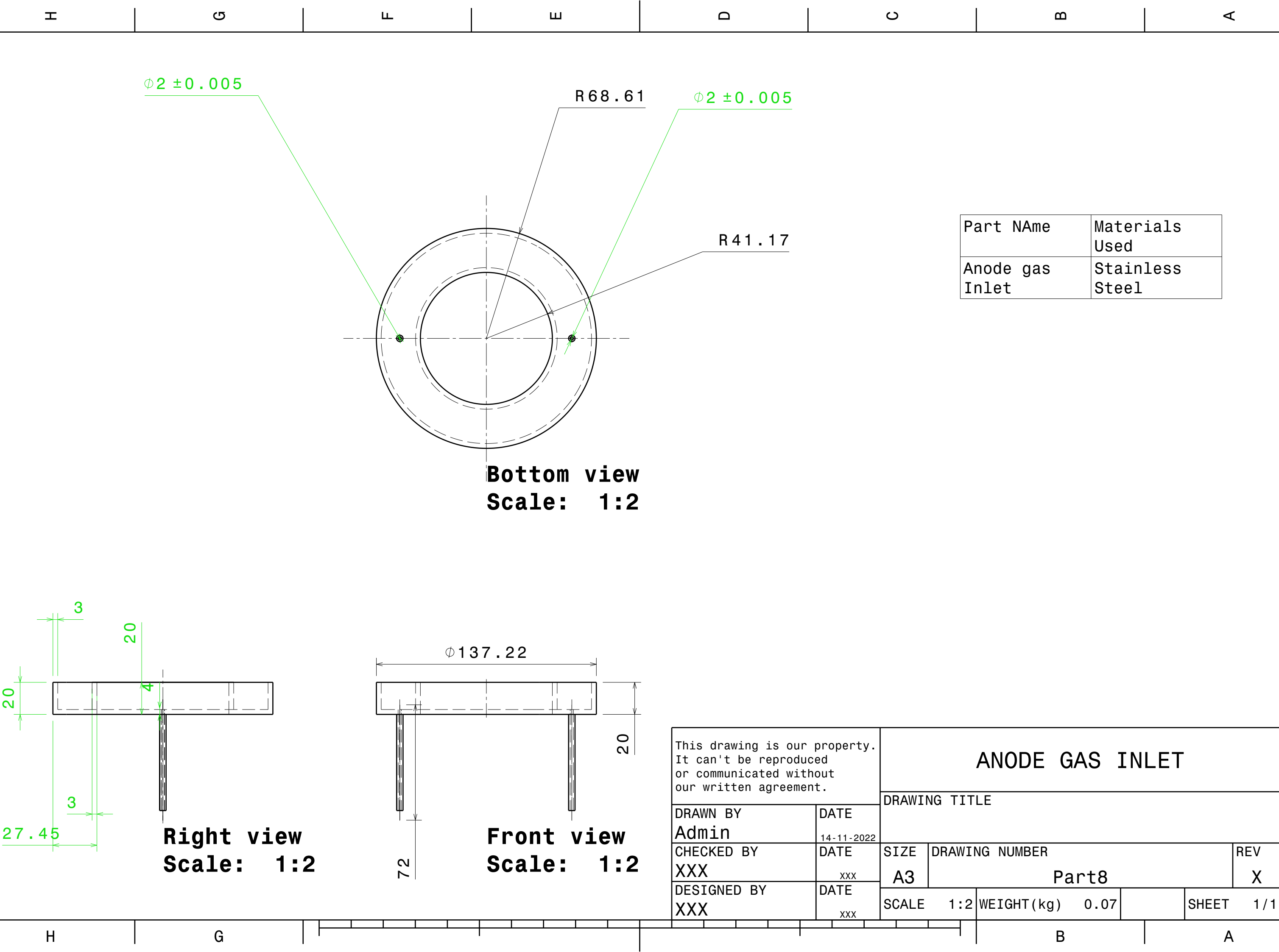
1



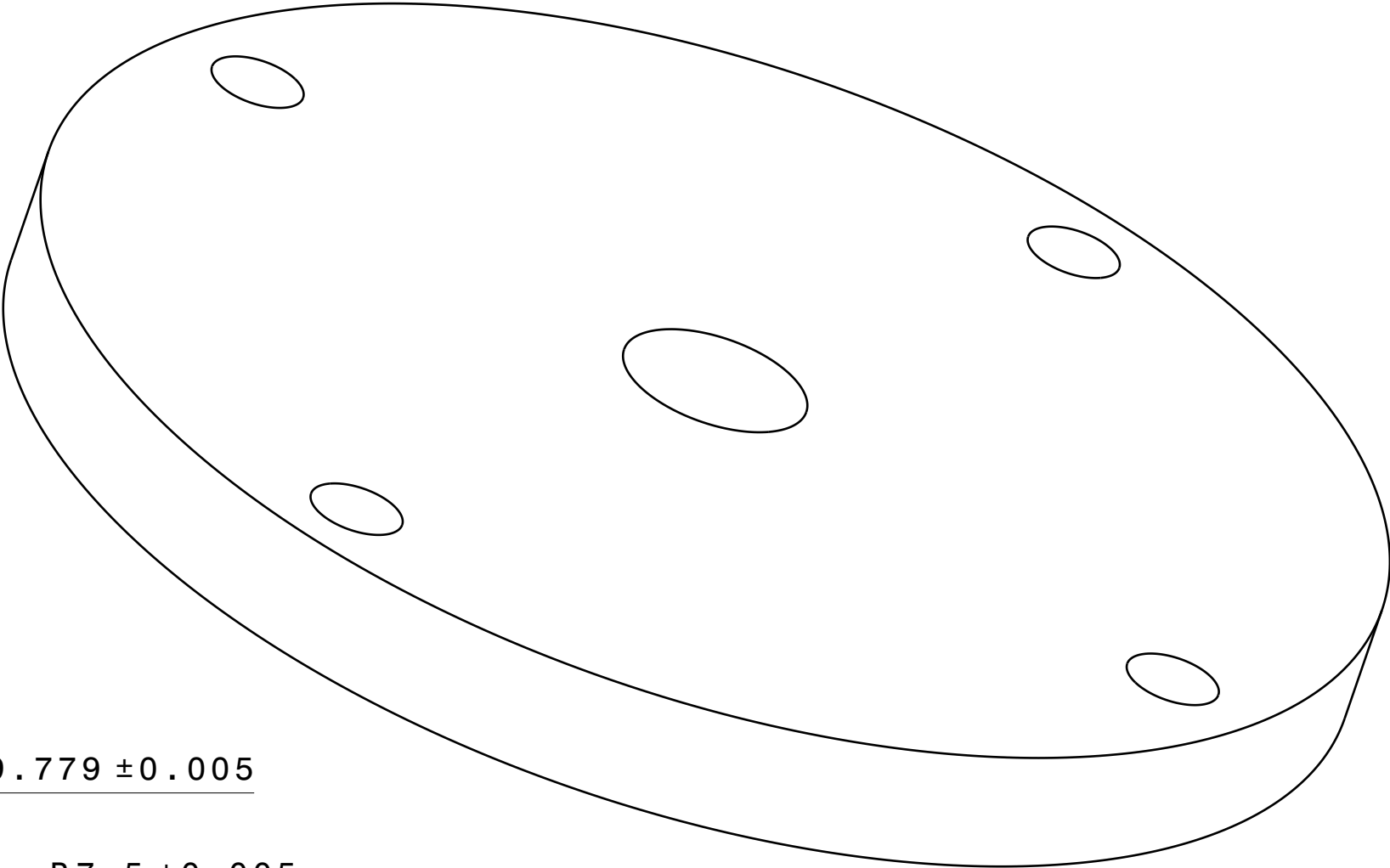
Part Name	Material Used
Outer EM coil	Soft Iron

This drawing is our property. It can't be reproduced or communicated without our written agreement.		Outer EM Coil					
		Material					
DRAWN BY	DATE 15-11-2022						
CHECKED BY XXX	DATE xxx	SIZE A3	DRAWING NUMBER Part6				REV X
DESIGNED BY XXX	DATE xxx	SCALE 1:1	WEIGHT(kg) 0.00			SHEET 1/1	

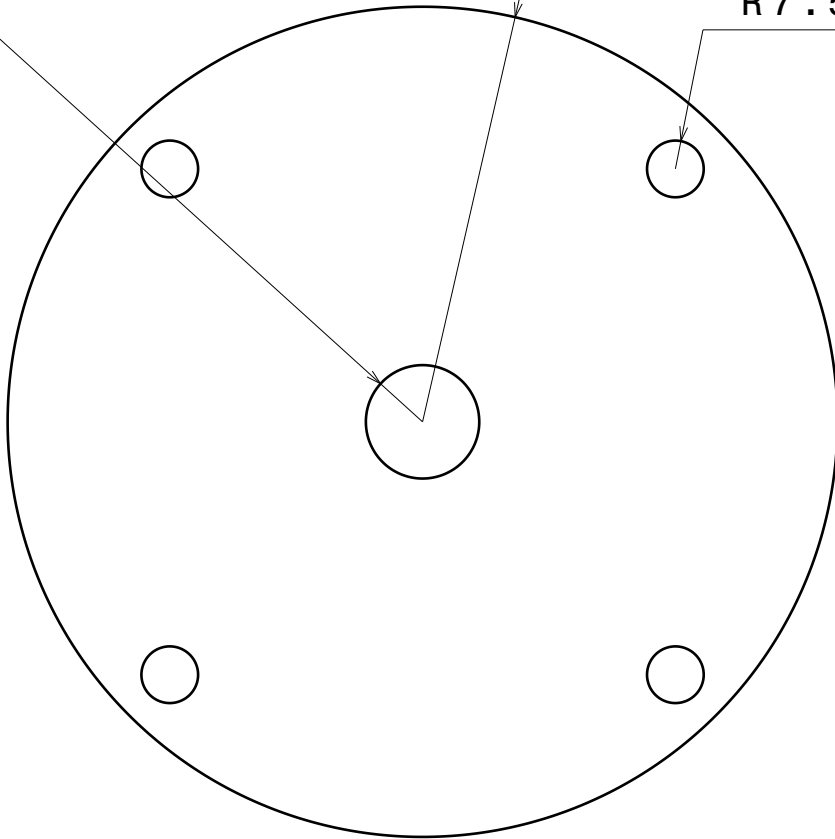




Part Name	Material used
Back base	Stainless steel

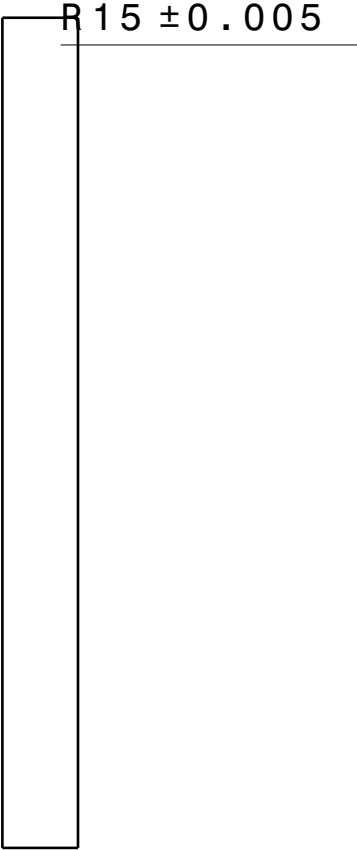


Isometric view  
Scale: 1:1



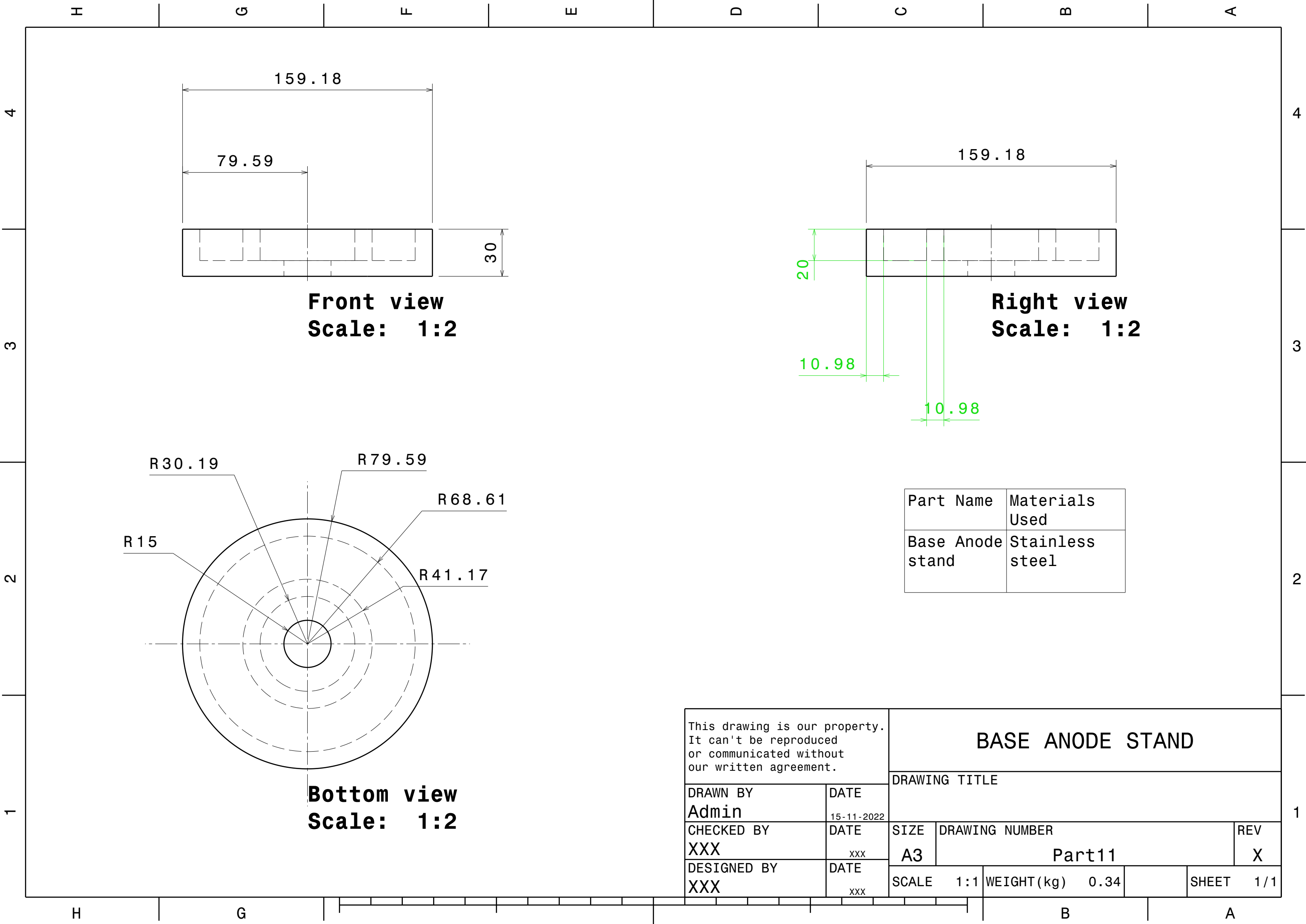
Right view  
Scale: 1:2

Bottom view  
Scale: 1:2



Front view  
Scale: 1:2

This drawing is our property. It can't be reproduced or communicated without our written agreement.		BACK BASE			
		DRAWING TITLE			
DRAWN BY MSRUAS	DATE 15-11-2022	Stainless Steel			
CHECKED BY XXX	DATE xxx	SIZE A3	DRAWING NUMBER 3		REV X
DESIGNED BY XXX	DATE xxx	SCALE 1:1	WEIGHT (kg) 5.73	SHEET 1/1	



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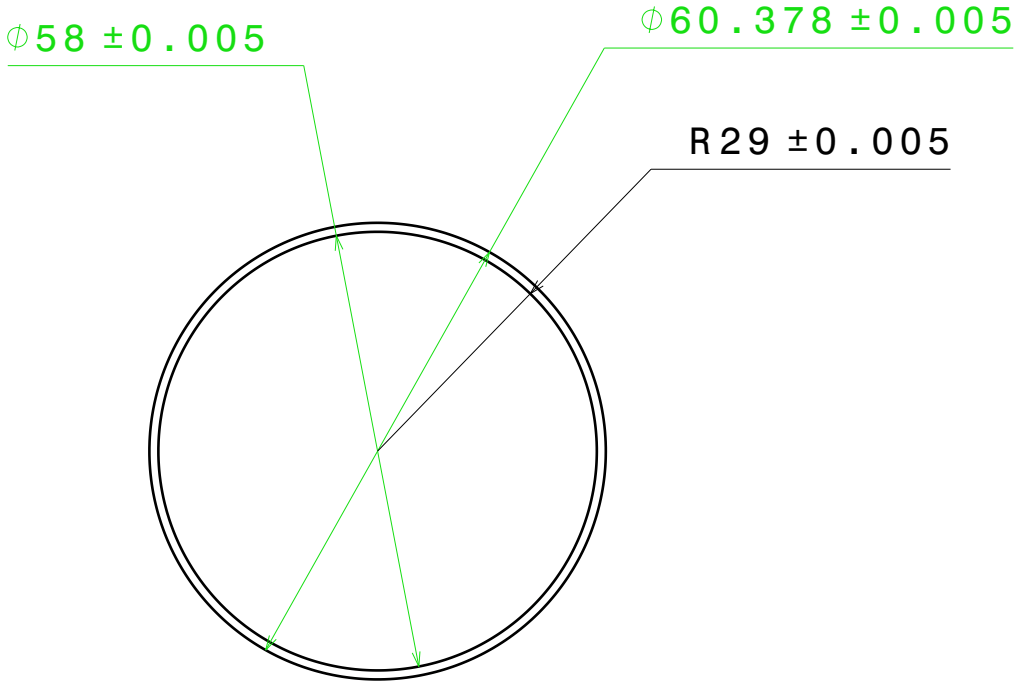
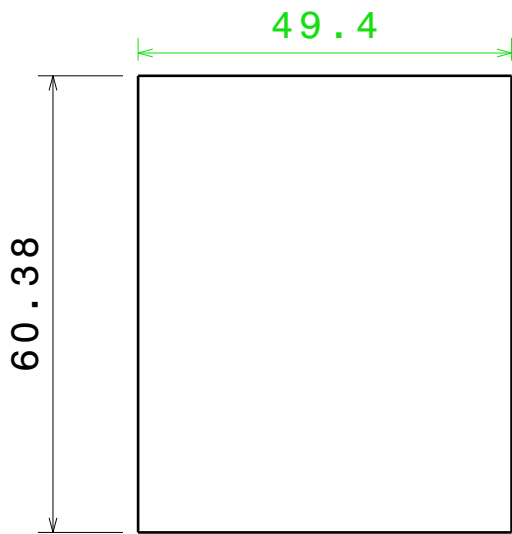
E

D

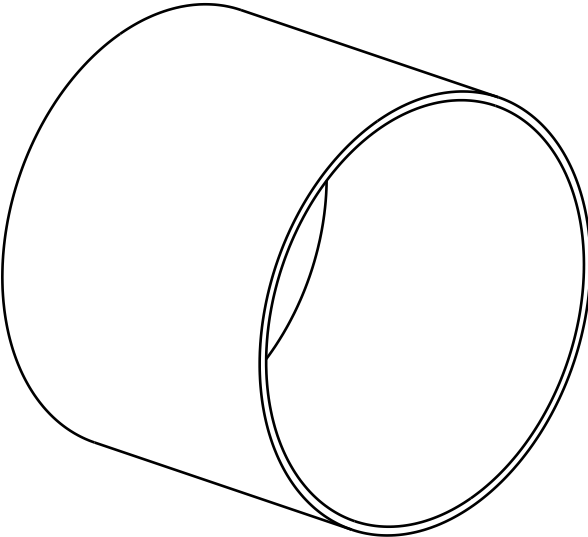
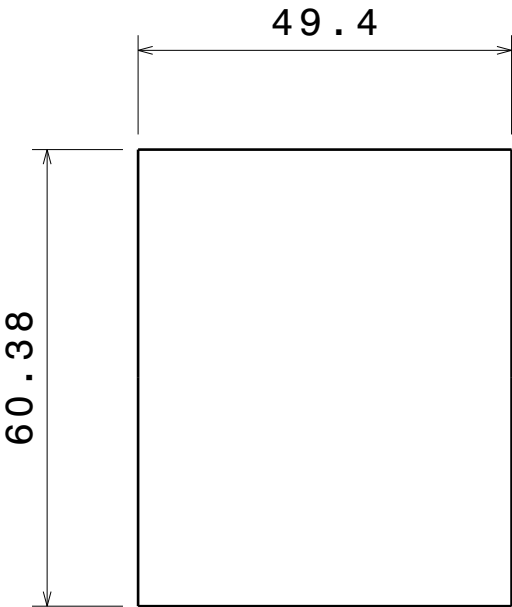
C

B

A



Part name	Material used
Centre core cover	Stainless Steel



This drawing is our property. It can't be reproduced or communicated without our written agreement.		CENTRE CORE COVER			
		DRAWING TITLE			
DRAWN BY MSRUAS	DATE 15-11-2022				
CHECKED BY XXX	DATE xxx	SIZE A3	DRAWING NUMBER DESIGN 1-PROTOTYPE		REV X
DESIGNED BY XXX	DATE xxx	SCALE 1:1	WEIGHT (kg) 0.01		SHEET 1/1

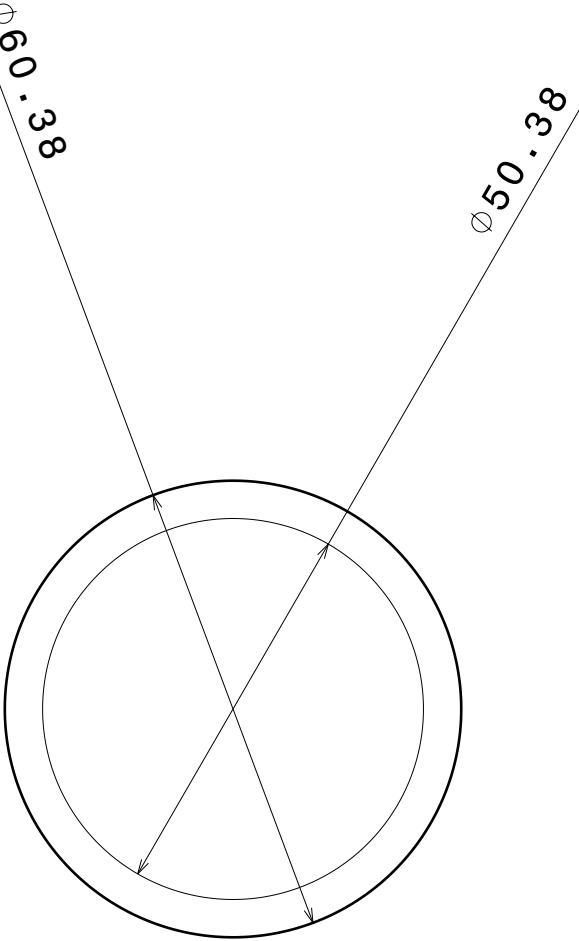
H

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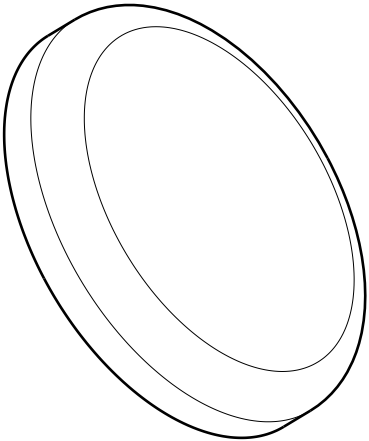
B

A

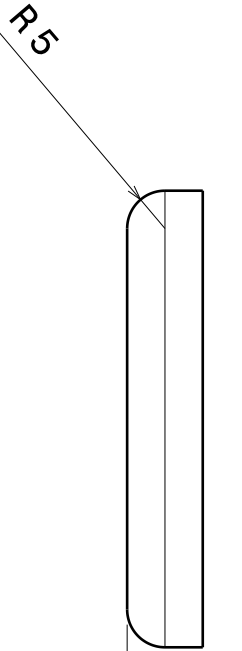
Part name	Material used
Front inner ring	Stainless steel



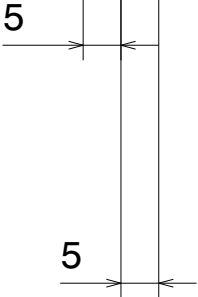
Front view  
Scale: 1:1



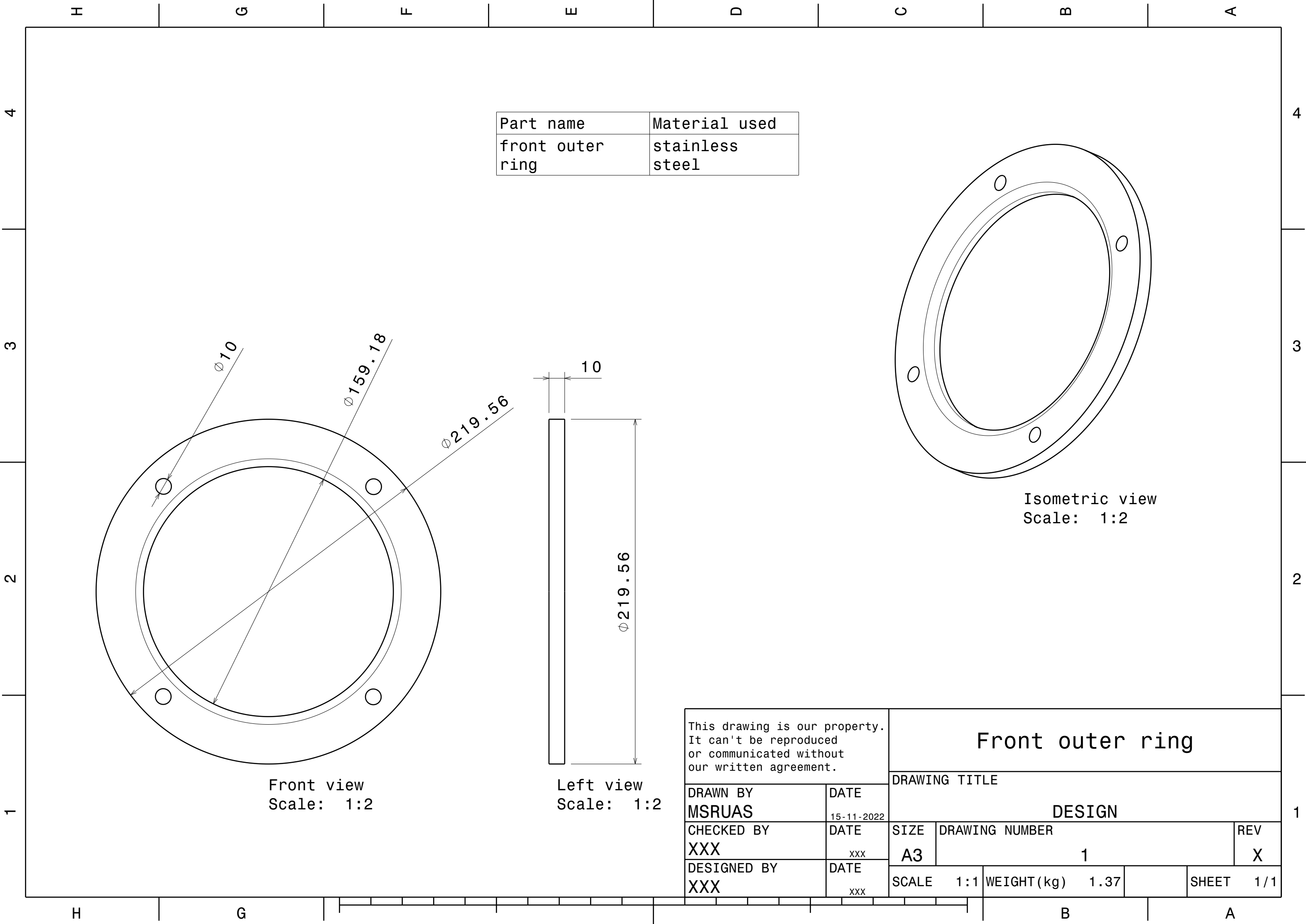
Isometric view  
Scale: 1:1



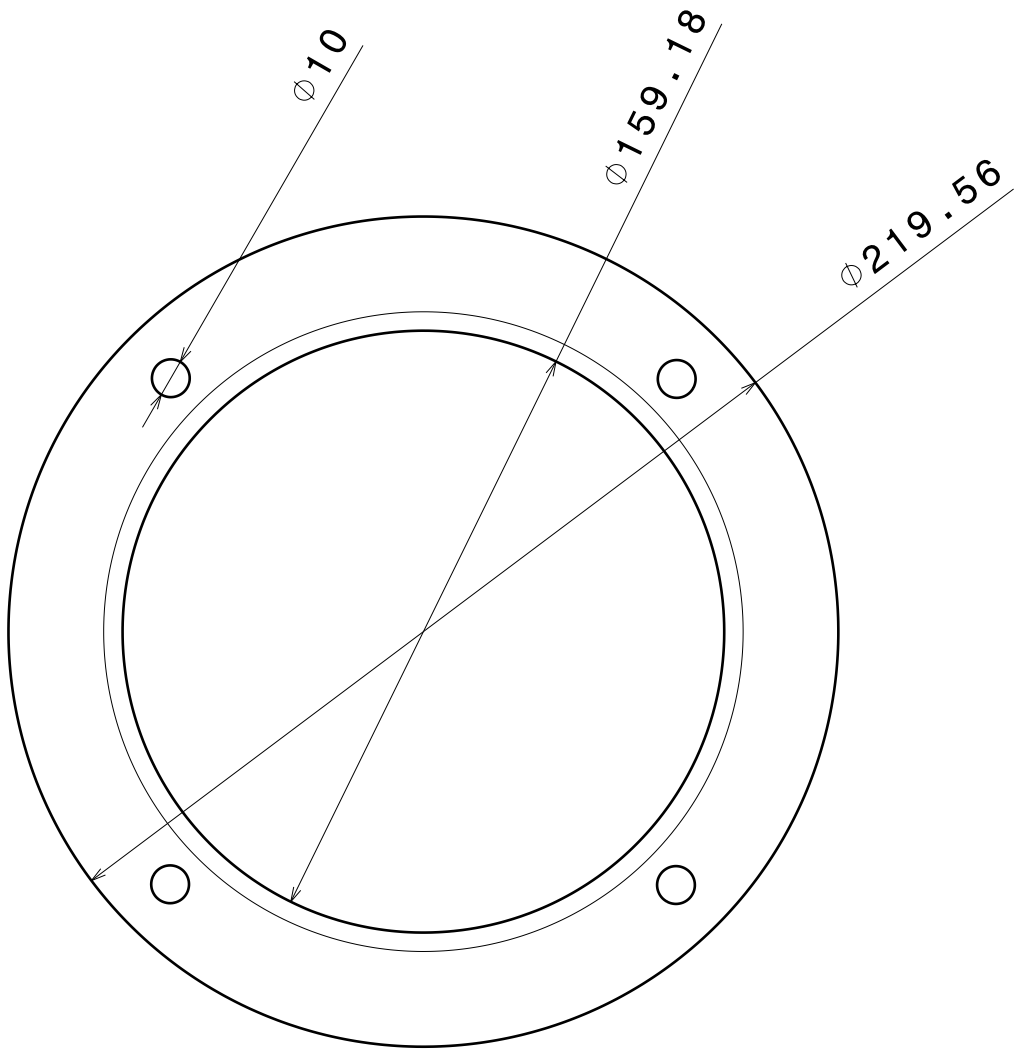
Right view  
Scale: 1:1



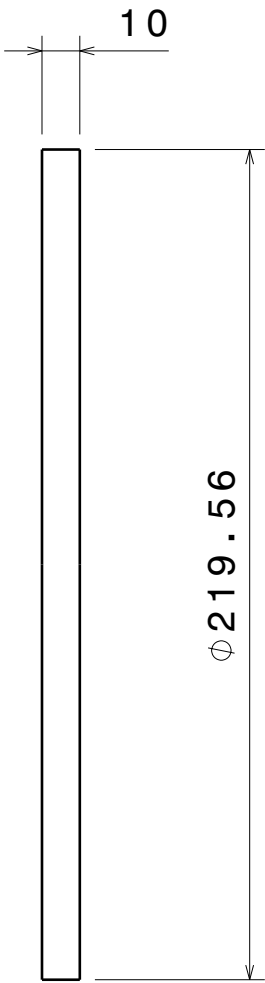
This drawing is our property. It can't be reproduced or communicated without our written agreement.		Front inner ring			
		DRAWING TITLE			
DRAWN BY MSRUAS	DATE 15-11-2022	Design			
CHECKED BY XXX	DATE XXX	SIZE A3	DRAWING NUMBER XXX		REV X
DESIGNED BY XXX	DATE XXX	SCALE 1:1	WEIGHT (kg) XXX	SHEET 1/1	



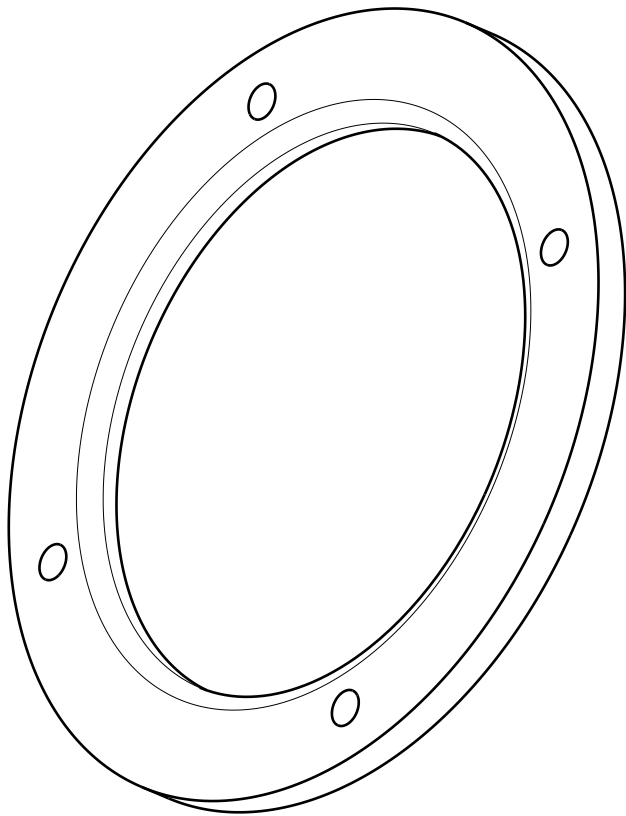
Part name	Material used
front outer ring	stainless steel



Front view  
Scale: 1:2

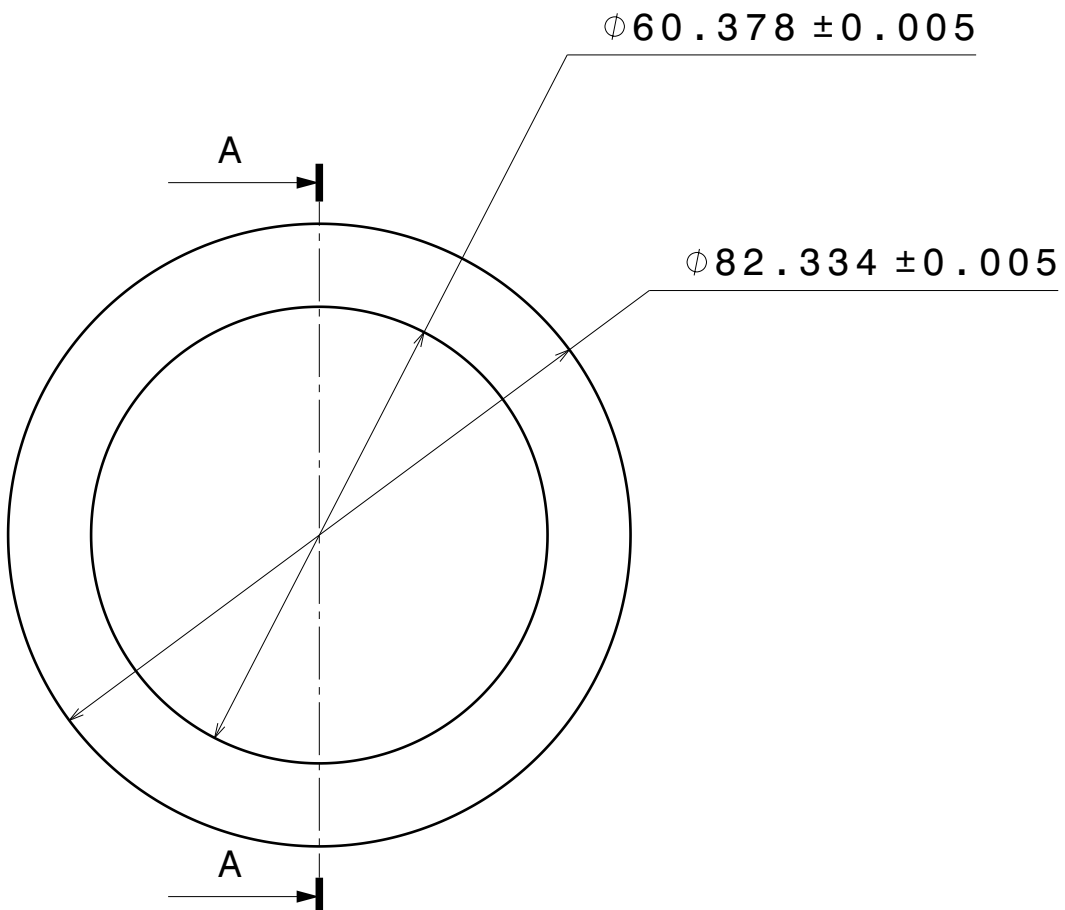


Left view  
Scale: 1:2

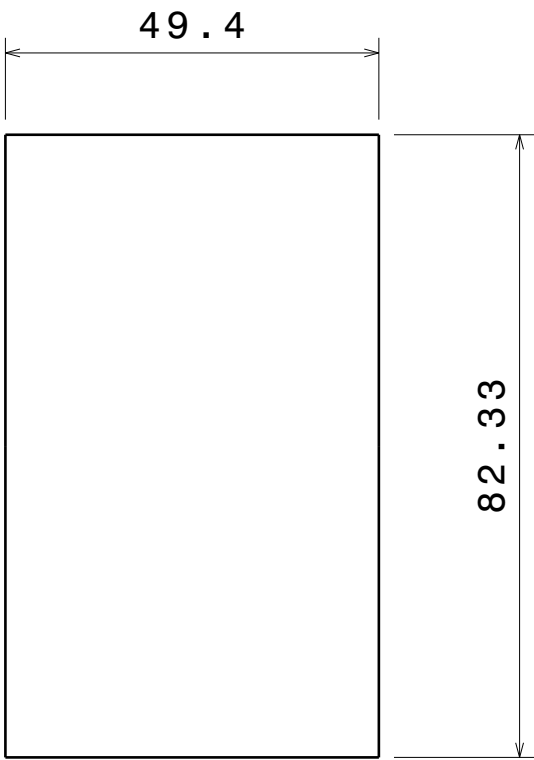


Isometric view  
Scale: 1:2

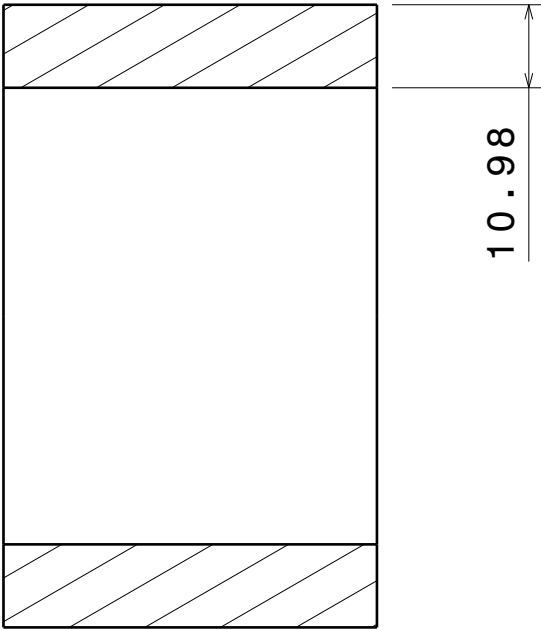
This drawing is our property. It can't be reproduced or communicated without our written agreement.		Front outer ring			
		DRAWING TITLE			
DRAWN BY MSRUAS	DATE 15-11-2022	DESIGN			
CHECKED BY XXX	DATE xxx	SIZE A3	DRAWING NUMBER 1		REV X
DESIGNED BY XXX	DATE xxx	SCALE 1:1	WEIGHT (kg) 1.37	SHEET 1/1	



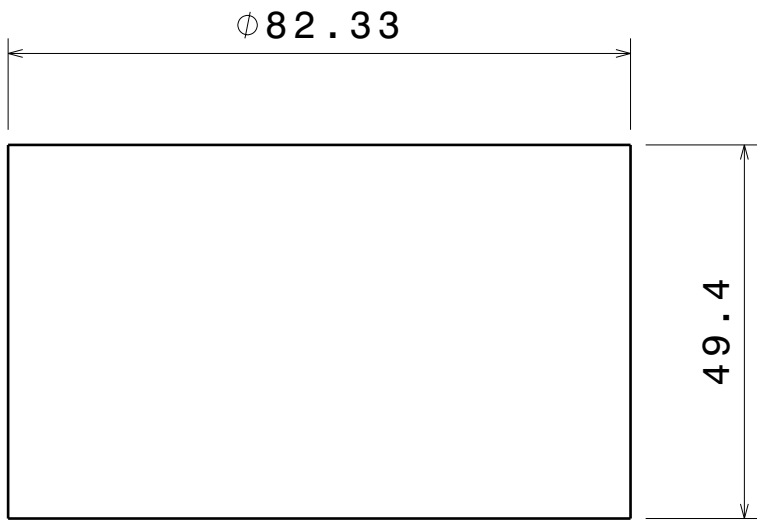
Front view  
Scale: 1:1



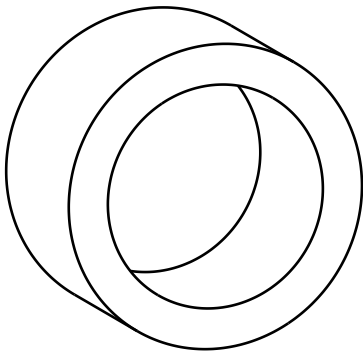
Left view  
Scale: 1:1



Section view A-A  
Scale: 1:1



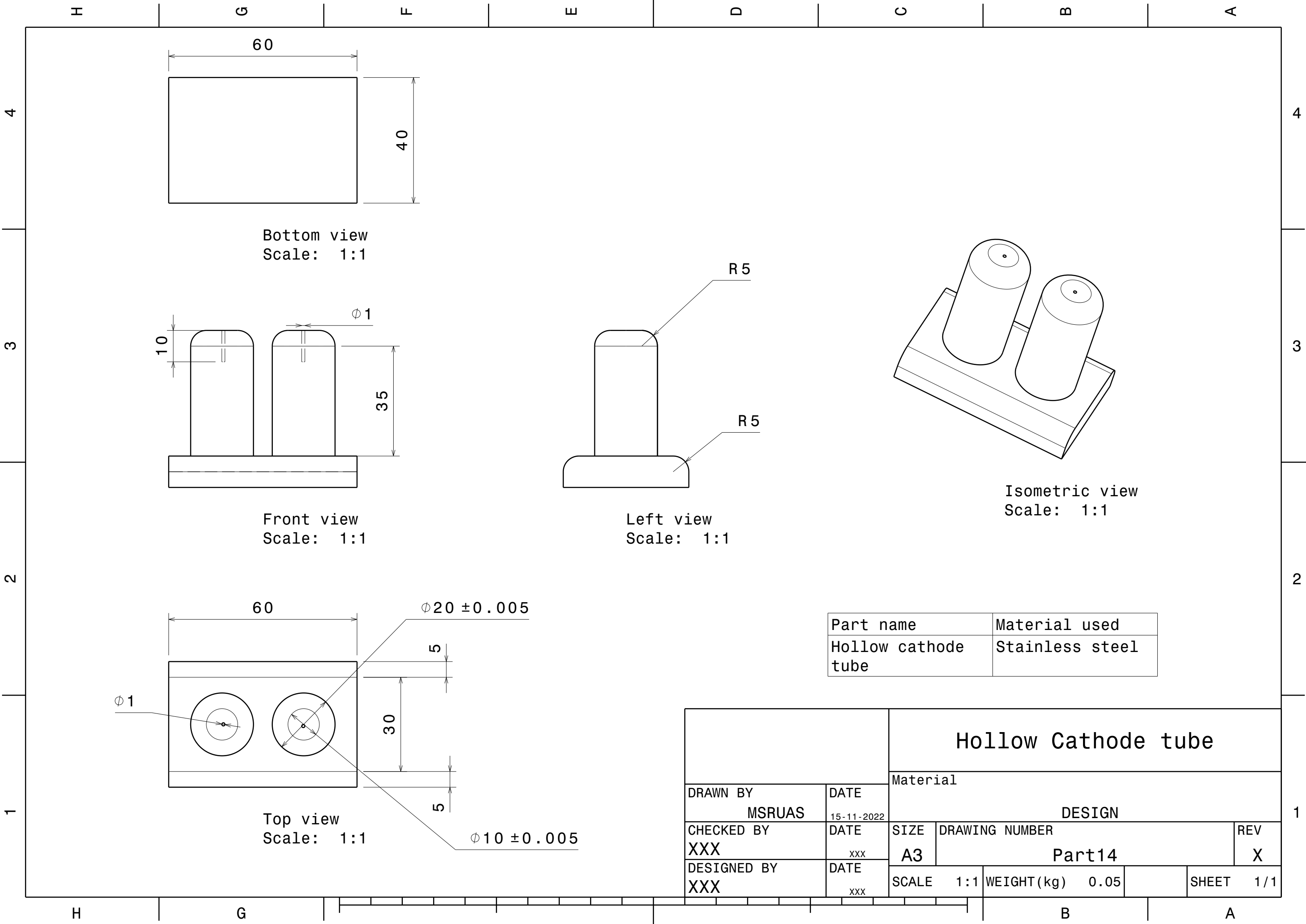
Bottom view  
Scale: 1:1



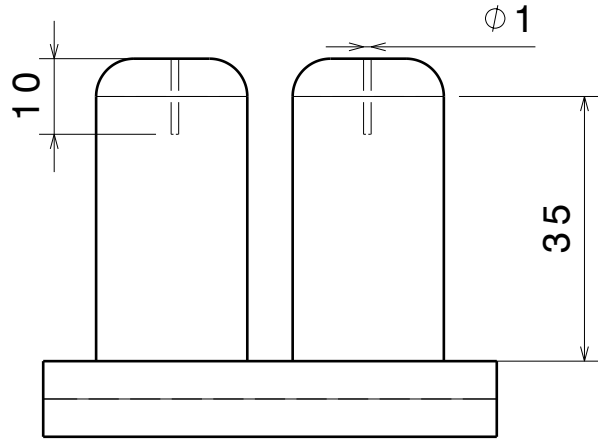
Isometric view  
Scale: 1:2

Part Name	Material used
Inner ceramic ring	Ceramic- Boron nitride

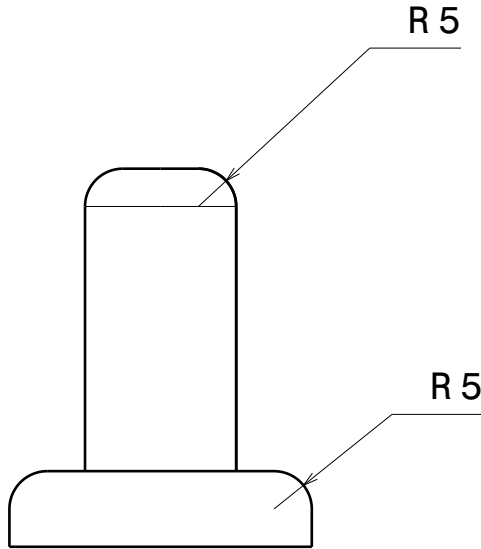
This drawing is our property. It can't be reproduced or communicated without our written agreement.		Inner Ceramic ring					
		Material					
DRAWN BY MSRUAS	DATE 15-11-2022	DESIGN					
CHECKED BY XXX	DATE xxx	SIZE A3	DRAWING NUMBER Part5				REV X
DESIGNED BY XXX	DATE xxx	SCALE 1 : 1	WEIGHT(kg) 0.00			SHEET 1 / 1	



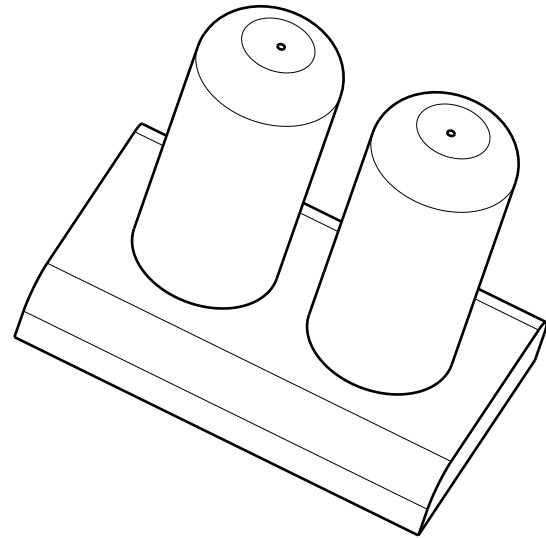
Bottom view  
Scale: 1:1



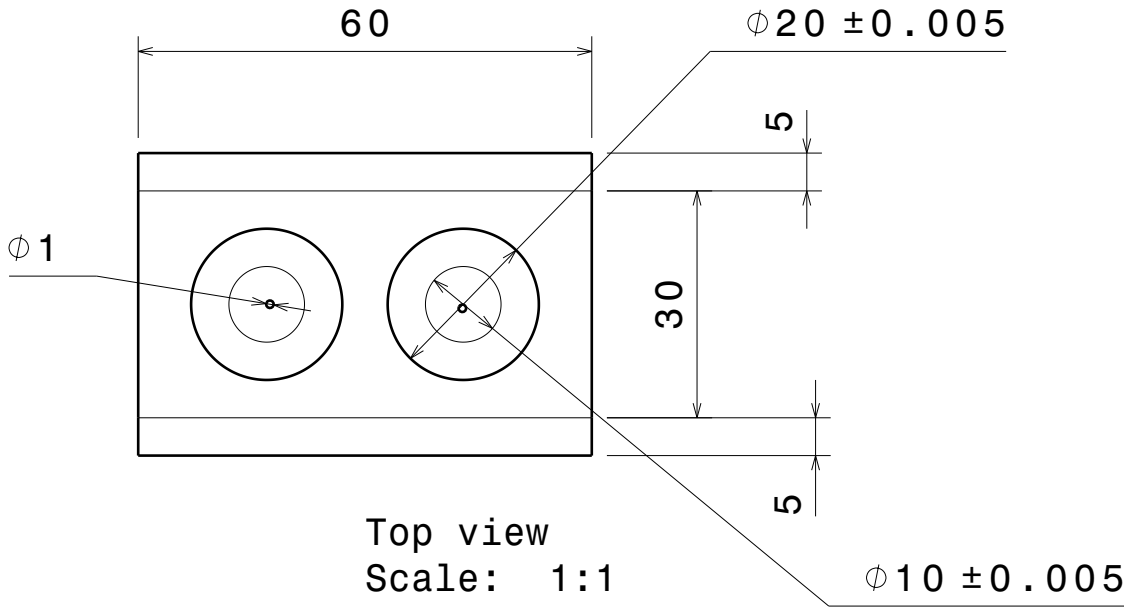
Front view  
Scale: 1:1



Left view  
Scale: 1:1



Isometric view  
Scale: 1:1

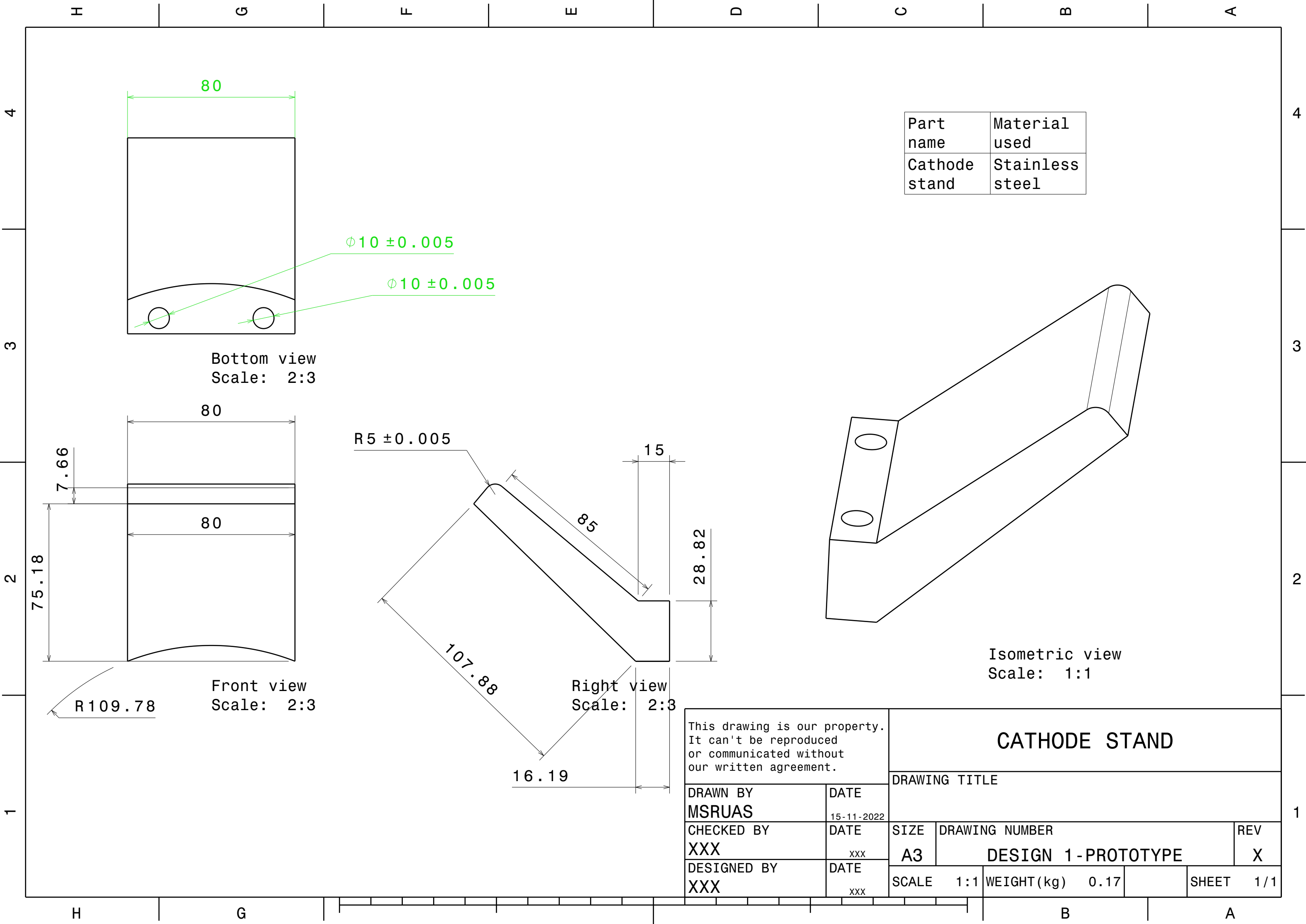


Top view  
Scale: 1:1

Part name	Material used
Hollow cathode tube	Stainless steel

		Hollow Cathode tube					
		Material					
DRAWN BY		DATE		DESIGN			
MSRUAS		15-11-2022					
CHECKED BY		DATE		SIZE		DRAWING NUMBER	
XXX		XXX		A3		Part14	
DESIGNED BY		DATE		SCALE		WEIGHT (kg)	
XXX		XXX		1:1		0.05	
						SHEET	
						1/1	





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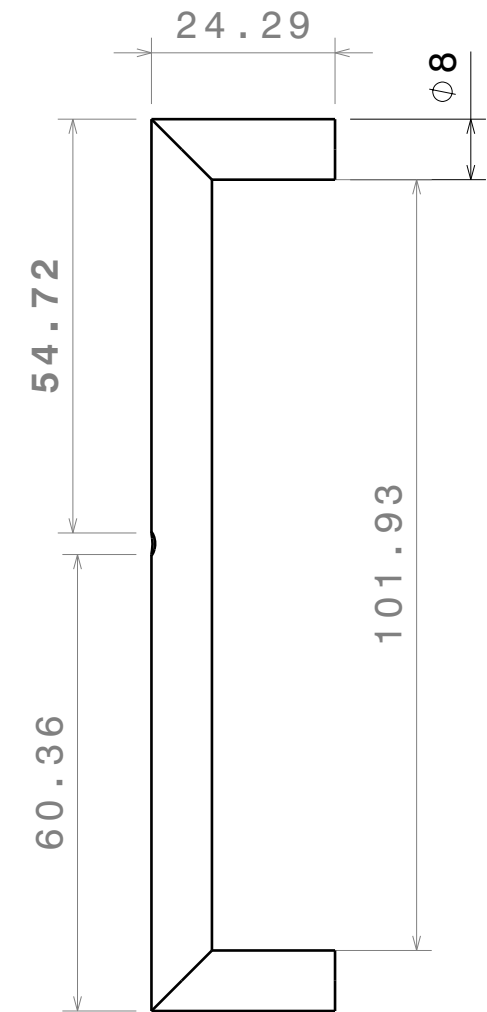
E

D

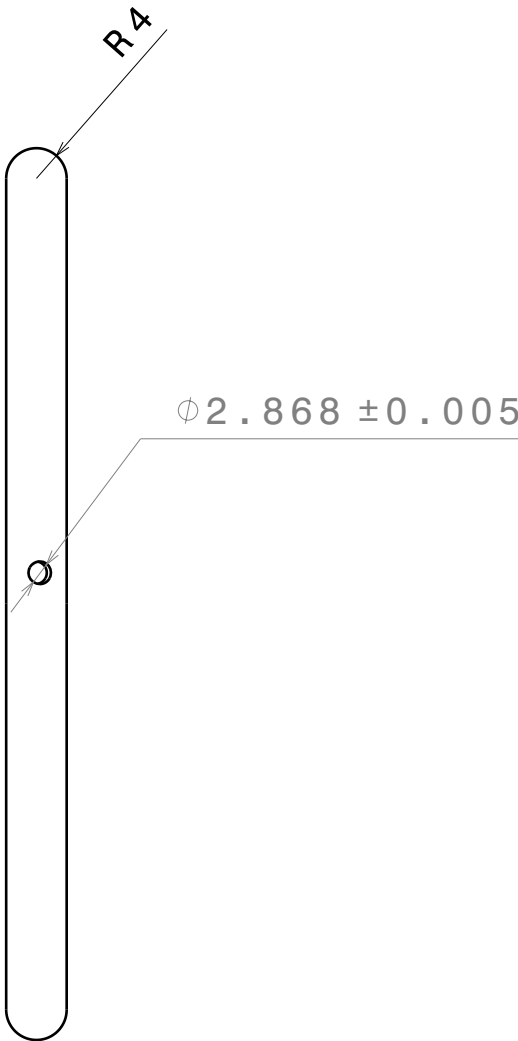
C

B

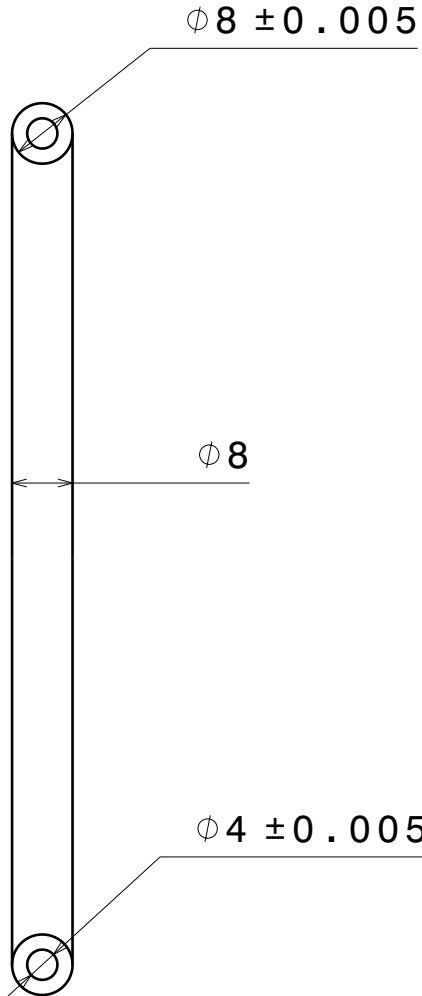
A



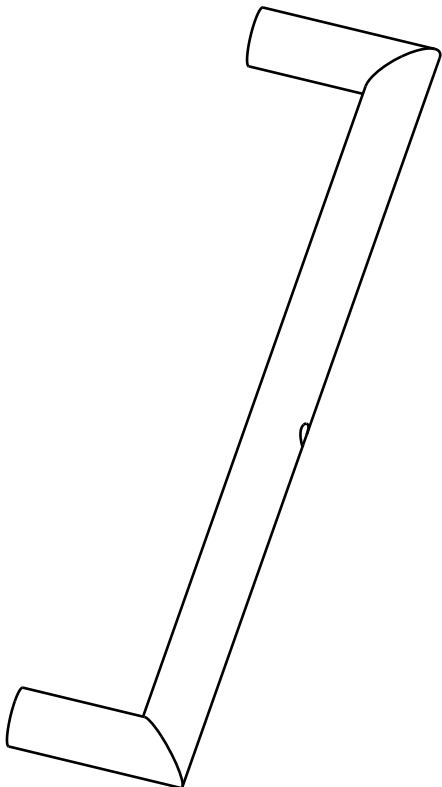
Right view  
Scale: 1:1



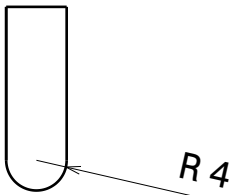
Front view  
Scale: 1:1



Rear view  
Scale: 1:1



Isometric view  
Scale: 1:1



Top view  
Scale: 1:1

Part name	Material used
Tube connector	Stainless steel

This drawing is our property. It can't be reproduced or communicated without our written agreement.		Tube connector			
		DRAWING TITLE			
DRAWN BY	DATE	Part12			
CHECKED BY XXX	DATE xxx				
DESIGNED BY XXX	DATE xxx	SIZE A3	DRAWING NUMBER	REV X	
		SCALE 1:1	WEIGHT(kg) 0.01	SHEET 1/1	

H

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