

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	R3-DET001-V1 (Link)		2
2	R3-DET002 (Mount 1)		1
3	R3-DET003 (Mount 1-2)		1
4	R3-DET004 (Mount 2)		1
5	R3-DET005 (Front)		2
6	R3-SUB01-DET001 (HingeBracket)		1
7	R3-SUB01-DET002 (HingeBlock)		1
8	R3-SUB01-DET003 (HingeCam)		1
9	92981A103	Alloy Steel Shoulder Screws	2
10	94645A102	High-Strength Steel Nylon-Insert Locknut	2
11	57155K588	Flanged Ball Bearing	4
12	R3-SUB02-DET001 (External)	CubeMars AK45-36	2
13	R3-SUB02-DET002 (Internal)		2
14	R3-SUB03-DET001 (CuffAttach)		1
15	R3-SUB03-DET002 (LinkAttach)		1
16	R3-SUB03-DET003 (Cuff)		1
17	94500A295_316 Stainless Steel Button Head Hex Drive Screws		4
18	91239A113	Button Head Hex Drive Screw	40
19	94777A102	316 Stainless Steel Flange Nut	2
20	R3-DET006-V1 (Rear)		2

20	RS-DE1006-V1 (REV)	UNLESS OTHERWISE SPECIFIED:	NAME	DATE	Z
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm$ ANGULAR: MACH $\pm$ BEND $\pm$ TWO PLACE DECIMAL $\pm$ THREE PLACE DECIMAL $\pm$			DRAWN	C. LAMCA	
			CHECKED		
			ENG APPR.		
			MFG APPR.		
			QA.		
			COMMENTS:		
NEXT ASSY		USED ON	SIZE DWG. NO. REV		
		FINISH	<b>B</b>	<b>R3</b>	
APPLICATION		DO NOT SCALE DRAWING	SCALE: 1:8 WEIGHT: SHEET 1 OF 15		

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4

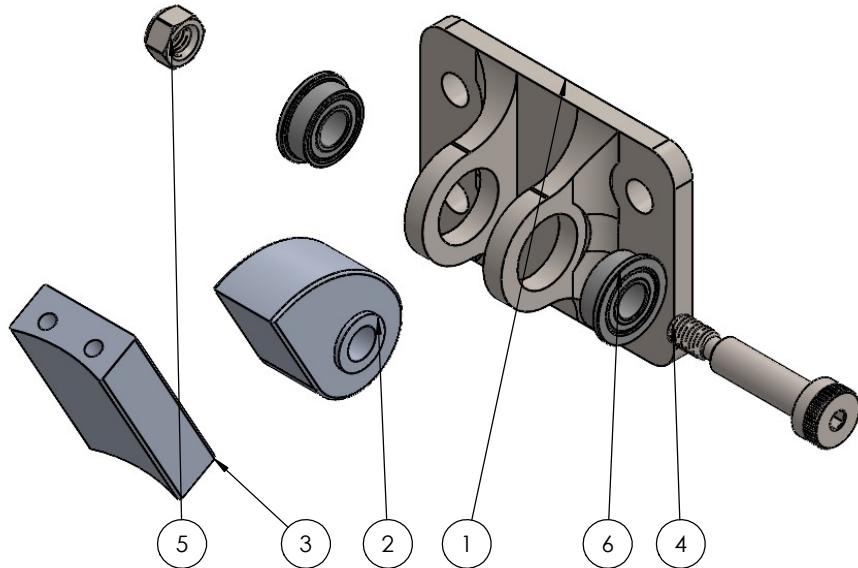
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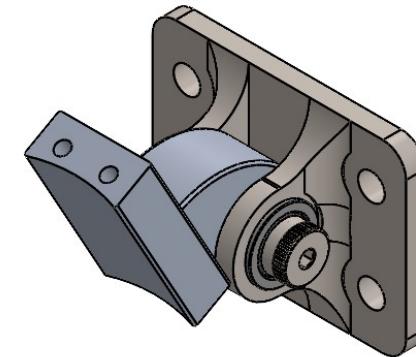
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B

B



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	R3-SUB01-DET001 (HingeBracket)		1
2	R3-SUB01-DET003 (HingeCam)		1
3	R3-SUB01-DET002 (HingeBlock)		1
4	92981A103	Alloy Steel Shoulder Screws	1
5	94645A102	High-Strength Steel Nylon-Insert Locknut	1
6	57155K588	Flanged Ball Bearing	2



ISOMETRIC VIEW  
SCALE: 4:3

4

3

2

1

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		DIMENSIONS ARE IN INCHES		DRAWN	C. LAMCA		
		TOLERANCES:		CHECKED			
		FRACTIONAL $\pm$		ENG APPR.			
		ANGULAR: MACH $\pm$ BEND $\pm$		MFG APPR.			
		TWO PLACE DECIMAL $\pm$		Q.A.			
		THREE PLACE DECIMAL $\pm$		COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:					
		MATERIAL					
		NEXT ASSY	USED ON	FINISH			
		APPLICATION		DO NOT SCALE DRAWING			

TITLE: SUB01  
HINGE ASSEM.  
SIZE DWG. NO. B R3 REV  
SCALE: 1:8 WEIGHT: SHEET 2 OF 15

4

3

2

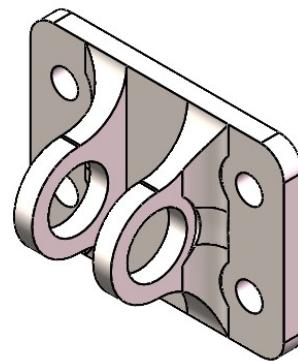
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UNITS IN mm UNLESS OTHERWISE SPECIFIED  
DRAWN IN ACCORDANCE TO ASME Y14.5 DRAFTING STANDARDS

B

Technical drawing of a mechanical part with the following dimensions and features:

- Top View:** Features a horizontal slot with a width of  $2X 47.50$  mm. The overall width is  $55.00$  mm. A central vertical slot has a width of  $38.00$  mm. The total height is  $40.00$  mm, divided into  $2X 10.00$  mm,  $2X 30.00$  mm, and a top section of  $40.00$  mm. The top surface has a radius of  $2X R5.00$ . A feature labeled 'A' is at the top center, with a tolerance of  $0.01$  mm. A feature labeled 'B' is on the left side, with a tolerance of  $0.01$  mm. A feature labeled 'C' is on the left side, with a tolerance of  $0.01$  mm.
- Left View:** Shows a vertical slot with a width of  $20.90$  mm. The total height is  $40.00$  mm, divided into  $2X 10.00$  mm,  $2X 30.00$  mm, and a top section of  $40.00$  mm. The top surface has a radius of  $2X R5.00$ . A feature labeled 'A' is at the top center, with a tolerance of  $0.01$  mm. A feature labeled 'B' is on the left side, with a tolerance of  $0.01$  mm. A feature labeled 'C' is on the left side, with a tolerance of  $0.01$  mm.
- Right View:** Shows a circular feature with a diameter of  $\phi 13.00$  mm. The overall width is  $40.00$  mm, divided into  $3.500$  mm,  $+0.005$  mm,  $-0.005$  mm, and a top section of  $40.00$  mm. The top surface has a radius of  $4.00$  mm, with a tolerance of  $+0.01$  mm and  $-0.01$  mm.



ISOMETRIC VIEW  
SCALE: 4:3

A

B

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		DIMENSIONS ARE IN INCHES	DRAWN	C. LAMCA				
		TOLERANCES:	CHECKED		TITLE: <b>SUB01-DET001</b> <b>HINGE BRACKET</b>			
		FRACTIONAL $\pm$ ANGULAR: MACH $\pm$ BEND $\pm$ TWO PLACE DECIMAL $\pm$ THREE PLACE DECIMAL $\pm$	ENG APPR.	MFG APPR.				
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		COMMENTS:			
		MATERIAL						
NEXT ASSY	USED ON	FINISH				SIZE	DWG. NO.	REV
APPLICATION		DO NOT SCALE DRAWING				<b>B</b>	<b>R3</b>	
						SCALE: 1:8	WEIGHT:	SHEET 3 OF 15

3

2

1

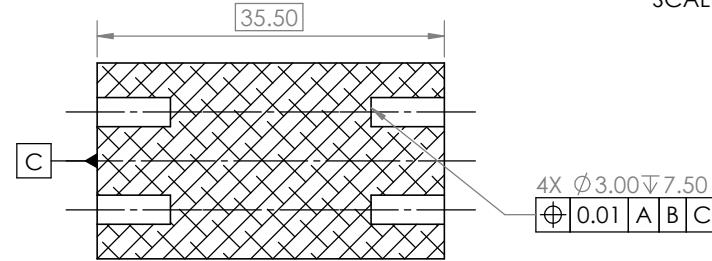
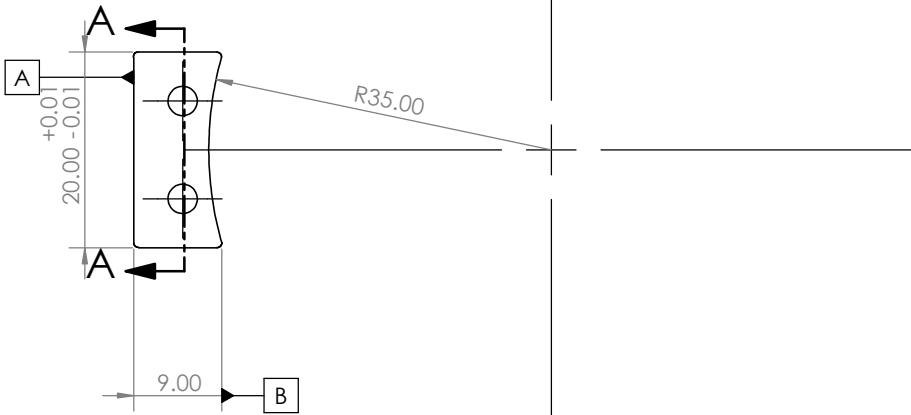
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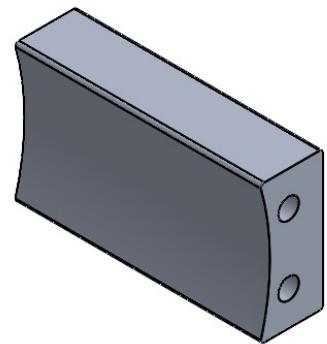
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UNITS IN mm UNLESS OTHERWISE SPECIFIED  
 DRAWN IN ACCORDANCE TO ASME Y14.5 DRAFTING STANDARDS  
 UNSPECIFIED RADII 0.5 mm



SECTION A-A  
 SCALE 2 : 1

ISOMETRIC VIEW  
 SCALE: 2:1



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		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ± ANGULAR: MACH: BEND: ± TWO PLACE DECIMAL: ± THREE PLACE DECIMAL: ±		NAME: C. LAMCA DATE:	TITLE: <b>SUB01-DET002 HINGE BLOCK</b> SIZE DWG. NO. B R3 REV
		INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL		COMMENTS:	
	NEXT ASSY	USED ON	FINISH		
	APPLICATION		DO NOT SCALE DRAWING		

4

3

2

1

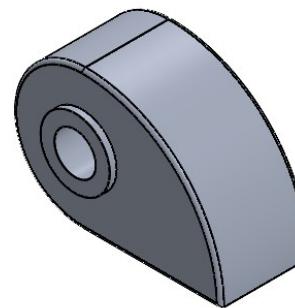
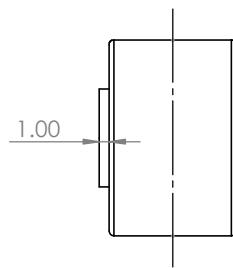
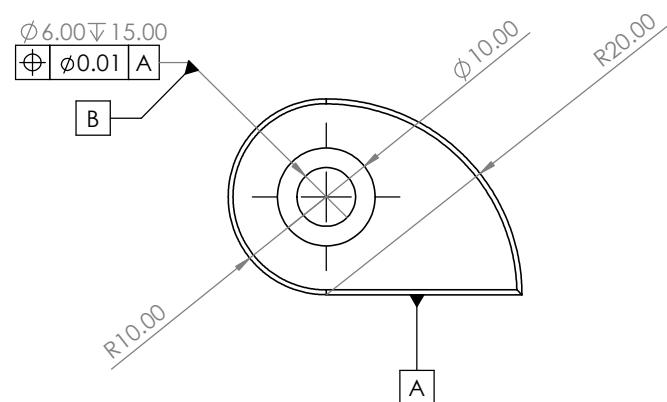
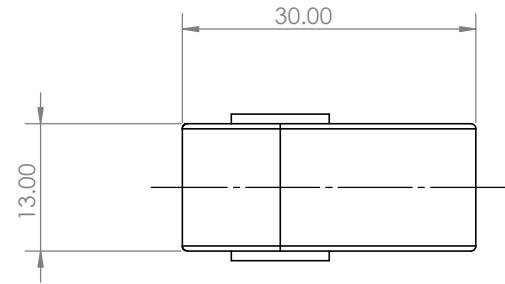
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3

2

1

UNITS IN mm UNLESS OTHERWISE SPECIFIED  
 DRAWN IN ACCORDANCE TO ASME Y14.5 DRAFTING STANDARDS  
 UNSPECIFIED RADII 0.5 mm



ISOMETRIC VIEW  
 SCALE: 4:3

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <b>SUB01-DET003</b> <b>HINGE CAM</b>
		DIMENSIONS ARE IN INCHES	C. LAMCA		
		TOLERANCES:			
		FRACTIONAL ±			
		ANGULAR: MACH ± BEND ±			
		TWO PLACE DECIMAL ±			
		THREE PLACE DECIMAL ±			
		INTERPRET GEOMETRIC TOLERANCING PER:			SIZE DWG. NO. <b>B</b> R3
		MATERIAL			
		Q.A.			
		COMMENTS:			REV
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

SCALE: 1:8 WEIGHT: SHEET 5 OF 15

4

3

2

1

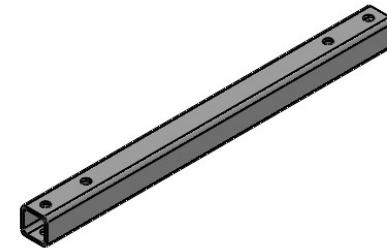
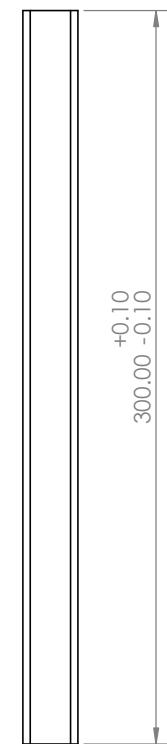
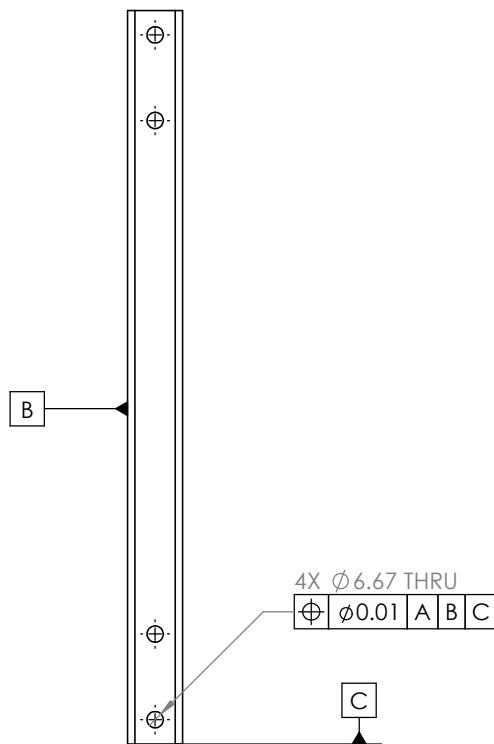
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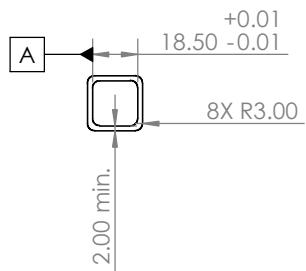
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UNITS IN mm UNLESS OTHERWISE SPECIFIED  
DRAWN IN ACCORDANCE TO ASME Y14.5 DRAFTING STANDARDS



ISOMETRIC VIEW  
SCALE: 1:3



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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: DET001-V1 LINK
		DIMENSIONS ARE IN INCHES	DRAWN	C. LAMCA	
		TOLERANCES:	CHECKED		
		FRACTIONAL: ±	ENG APPR.		
		ANGULAR: MACH: BEND: ±	MFG APPR.		
		TWO PLACE DECIMAL: ±	Q.A.		
		THREE PLACE DECIMAL: ±	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:	MATERIAL		
			FINISH		
NEXT ASSY	USED ON	APPLICATION	DO NOT SCALE DRAWING		
SIZE		DWG. NO.	R3	REV	
B		SCALE: 1:8	WEIGHT:	SHEET 6 OF 15	

4

3

2

1

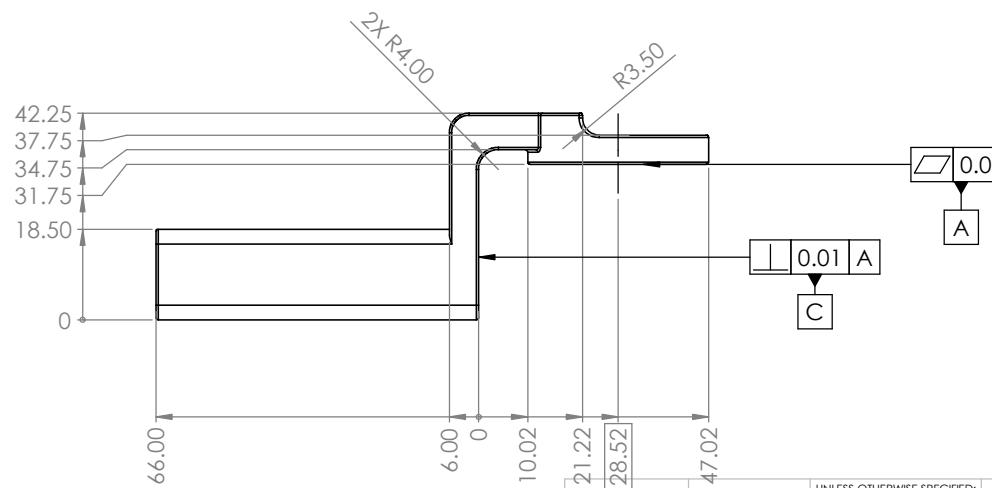
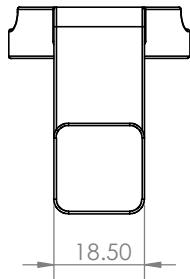
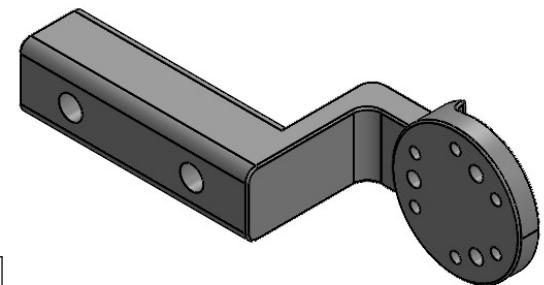
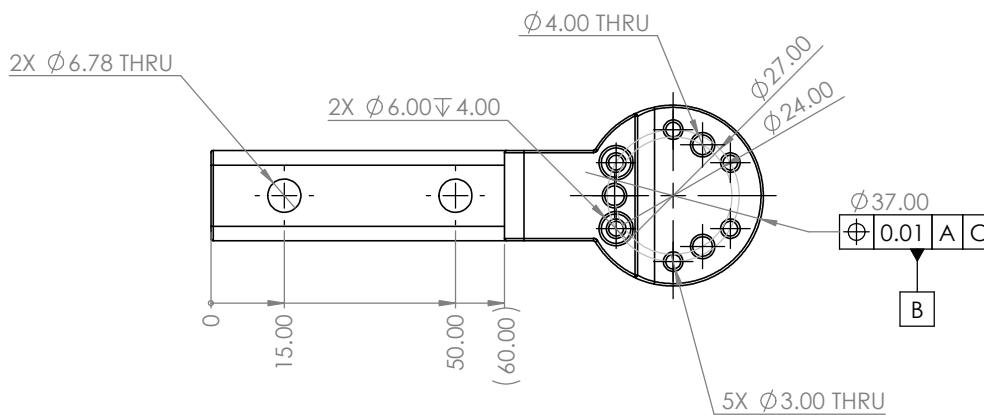
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3

2

1

UNITS IN mm UNLESS OTHERWISE SPECIFIED  
 DRAWN IN ACCORDANCE TO ASME Y14.5 DRAFTING STANDARDS  
 UNSPECIFIED RADII 0.5 mm



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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES		C. LAMCA	
TOLERANCES:			
FRACTIONAL: $\pm$			
ANGULAR: MACH $\pm$ BEND $\pm$			
TWO PLACE DECIMAL $\pm$			
THREE PLACE DECIMAL $\pm$			
INTERPRET GEOMETRIC TOLERANCING PER:		COMMENTS:	
		MATERIAL	
NEXT ASSY		FINISH	
USED ON		APPLICATION	DO NOT SCALE DRAWING

SIZE	DWG. NO.	REV
B	R3	
SCALE: 1:8	WEIGHT:	SHEET 7 OF 15

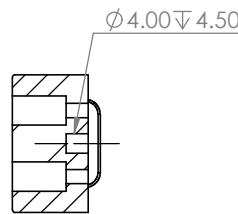
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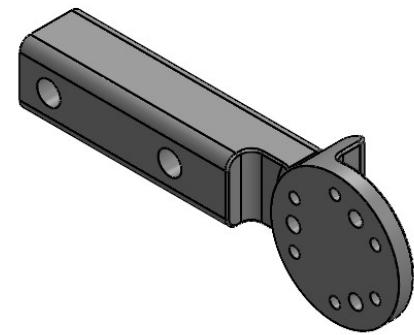
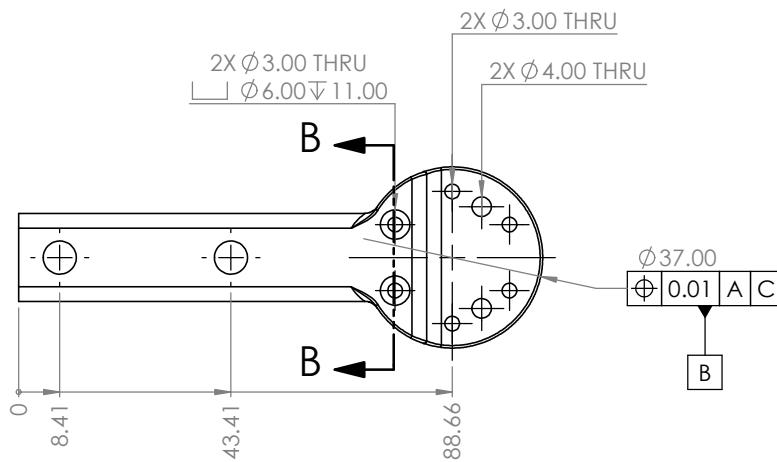
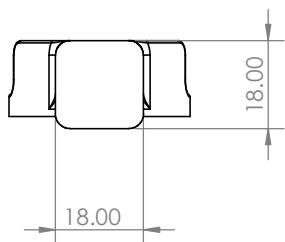
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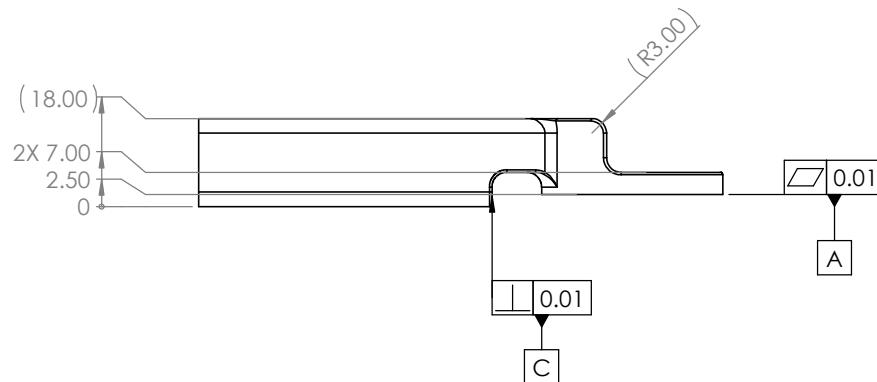
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 DRAWN IN ACCORDANCE TO ASME Y14.5 DRAFTING STANDARDS  
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 SPECIFIED 3 mm FOR ALL MAJOR RADIUS



SECTION B-B  
 SCALE 1:1



ISOMETRIC VIEW  
 SCALE: 1:1



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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
DIMENSIONS ARE IN INCHES			DRAWN	C. LAMCA
TOLERANCES:			CHECKED	
FRACTIONAL: ±			ENG APPR.	
ANGULAR: MACH: ± BEND: ±			MFG APPR.	
TWO PLACE DECIMAL: ±			Q.A.	
THREE PLACE DECIMAL: ±			COMMENTS:	
		INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

TITLE: DET003  
 MOUNT 1-2

SIZE DWG. NO. R3 REV

SCALE: 1:8 WEIGHT: SHEET 8 OF 15

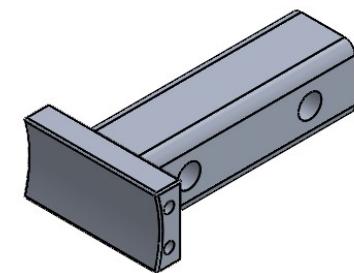
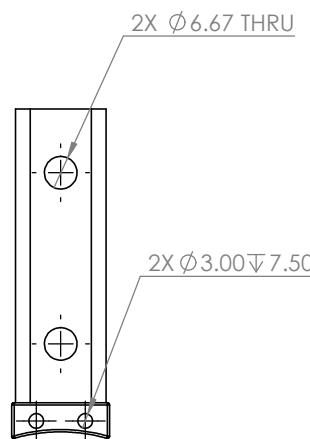
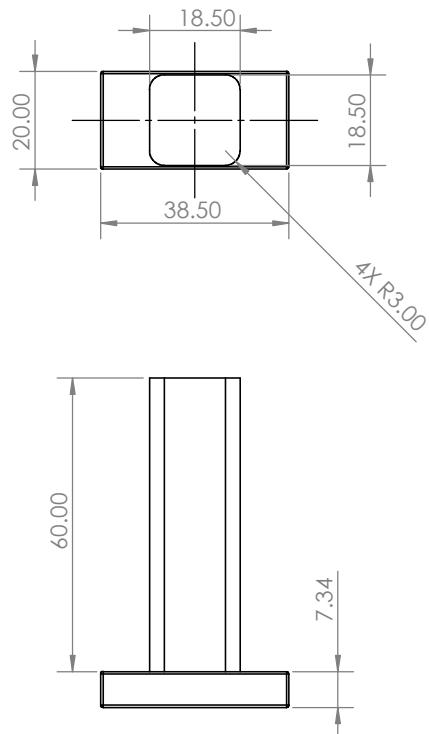
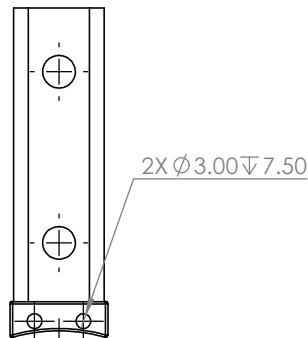
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3

2

1

UNITS IN mm UNLESS OTHERWISE SPECIFIED  
 DRAWN IN ACCORDANCE TO ASME Y14.5 DRAFTING STANDARDS  
 UNSPECIFIED RADII 0.5 mm



ISOMETRIC VIEW  
 SCALE: 1:1

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <b>DET004 MOUNT 2</b>
		DIMENSIONS ARE IN INCHES	DRAWN	C. LAMCA	
		TOLERANCES:	CHECKED		
		FRACTIONAL: ± ANGULAR: MACH: ± BEND: ±	ENG APPR.		
		TWO PLACE DECIMAL: ± THREE PLACE DECIMAL: ±	MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			SIZE DWG. NO. B R3 REV
		APPLICATION	DO NOT SCALE DRAWING		SCALE: 1:8 WEIGHT: SHEET 9 OF 15

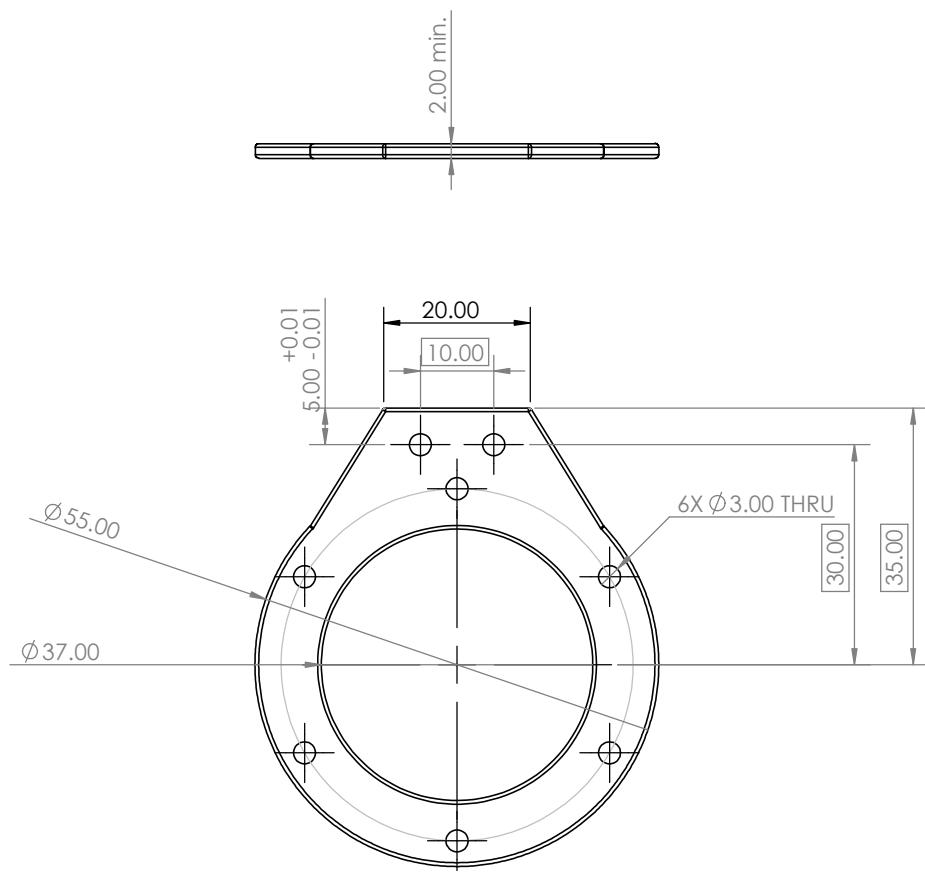
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2

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UNITS IN mm UNLESS OTHERWISE SPECIFIED  
 DRAWN IN ACCORDANCE TO ASME Y14.5 DRAFTING STANDARDS  
 UNSPECIFIED RADII 0.5 mm



ISOMETRIC VIEW  
 SCALE: 1:1

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		UNLESS OTHERWISE SPECIFIED:		DRAWN C. LAMCA	NAME C. LAMCA	DATE	TITLE:  DET005 FRONT MOTOR PLATE				
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm$ ANGULAR: MACH $\pm$ BEND $\pm$ TWO PLACE DECIMAL $\pm$ THREE PLACE DECIMAL $\pm$									
		INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL		CHECKED	ENG APPR.	MFG APPR.					
		NEXT ASSY APPLICATION									
		USED ON FINISH		COMMENTS:							
		DO NOT SCALE DRAWING									
SIZE		DWG. NO.		REV							
B		R3									
SCALE: 1:8		WEIGHT:		SHEET 10 OF 15							

4

3

2

1

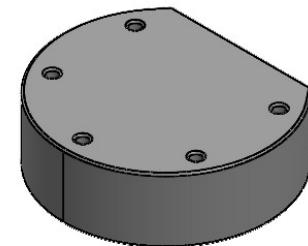
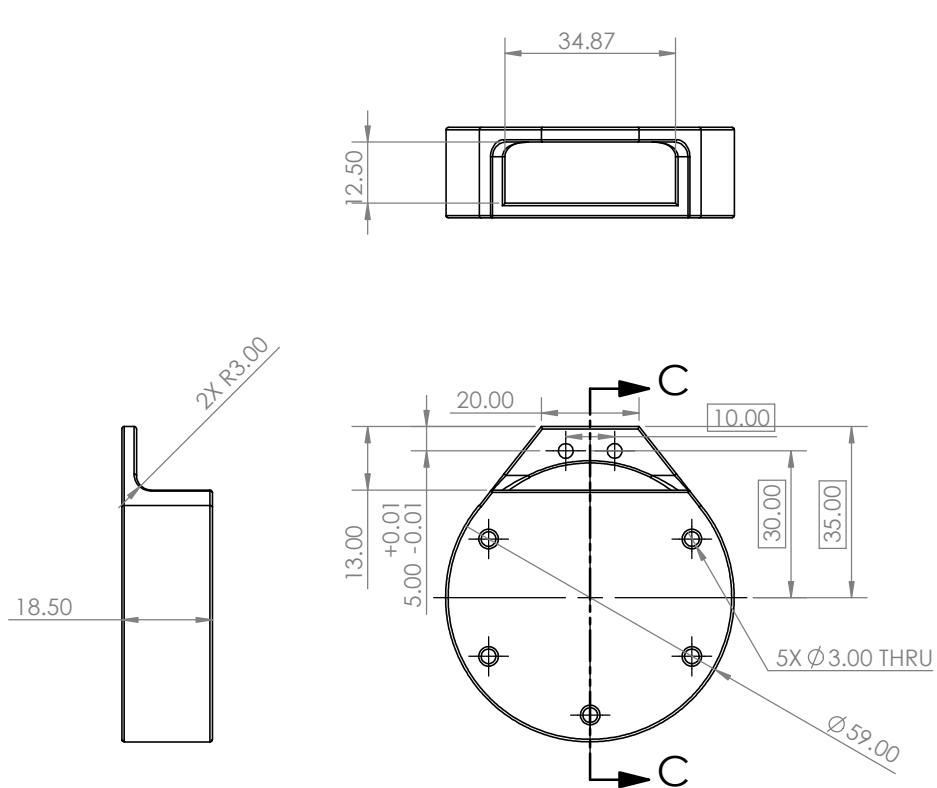
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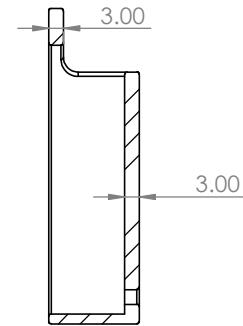
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UNITS IN mm UNLESS OTHERWISE SPECIFIED  
 DRAWN IN ACCORDANCE TO ASME Y14.5 DRAFTING STANDARDS  
 UNSPECIFIED RADII 0.5 mm



ISOMETRIC VIEW  
 SCALE: 1:1



SECTION C-C  
 SCALE 1:1

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		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm$ ANGULAR: MACH $\pm$ BEND $\pm$ TWO PLACE DECIMAL $\pm$ THREE PLACE DECIMAL $\pm$	NAME C. LAMCA	DATE
		INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL		
		NEXT ASSY	USED ON	FINISH
		APPLICATION		DO NOT SCALE DRAWING

TITLE: DET006-V1  
 REAR MOTOR PLATE

SIZE	DWG. NO.	REV
B	R3	

SCALE: 1:8 WEIGHT: SHEET 11 OF 15

4

3

2

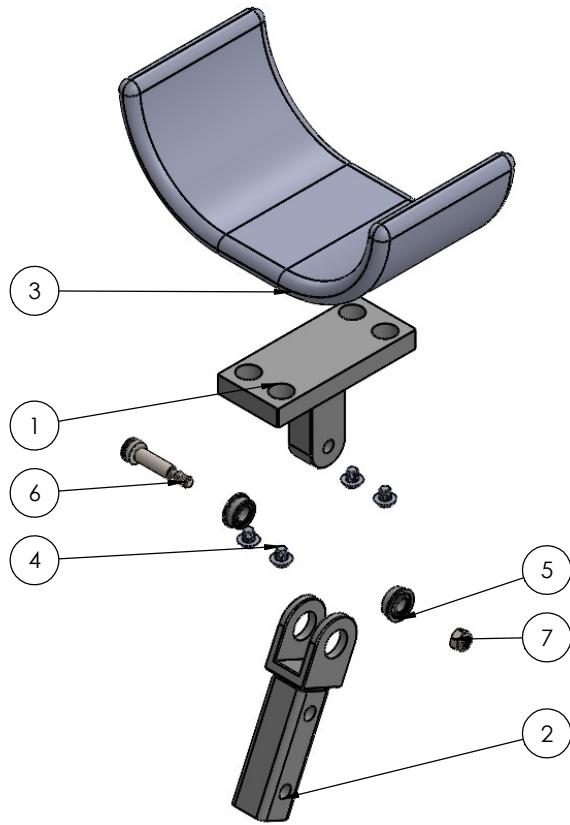
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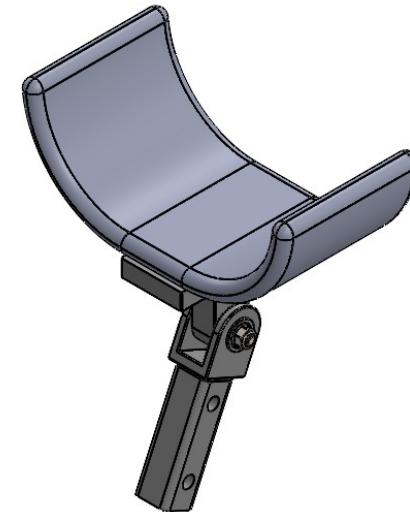
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2

1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	R3-SUB03-DET001 (CuffAttach)		1
2	R3-SUB03-DET002 (LinkAttach)		1
3	R3-SUB03-DET003 (Cuff)		1
4	94500A295_316 Stainless Steel Button Head Hex Drive Screws		4
5	57155K588	Flanged Ball Bearing	2
6	92981A103	Alloy Steel Shoulder Screws	1
7	94645A102	High-Strength Steel Nylon-Insert Locknut	1



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <b>SUB03 END EFFECTOR</b> SIZE DWG. NO. <b>B</b> R3 REV
		DIMENSIONS ARE IN INCHES	DRAWN	C. LAMCA		
		TOLERANCES:	CHECKED			
		FRACTIONAL $\pm$	ENG APPR.			
		ANGULAR: MACH $\pm$ BEND $\pm$	MFG APPR.			
		TWO PLACE DECIMAL $\pm$	Q.A.			
		THREE PLACE DECIMAL $\pm$	COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:				
		MATERIAL				
		NEXT ASSY	USED ON	FINISH		
	APPLICATION		DO NOT SCALE DRAWING			SCALE: 1:8 WEIGHT: SHEET 12 OF 15

4

3

2

1

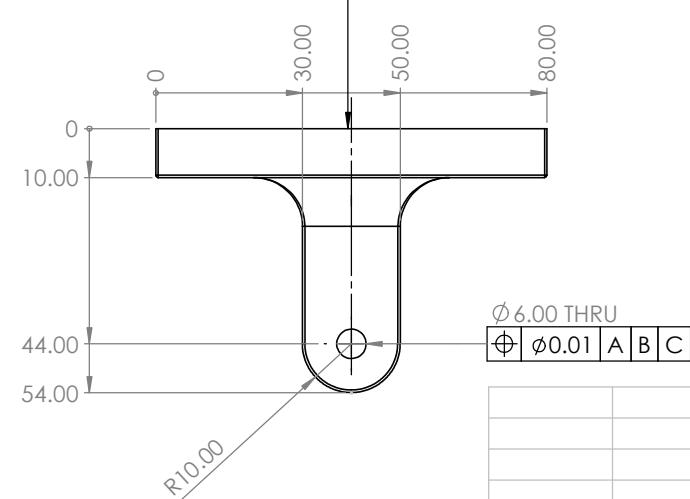
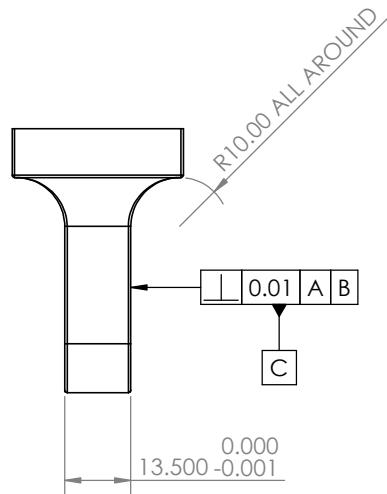
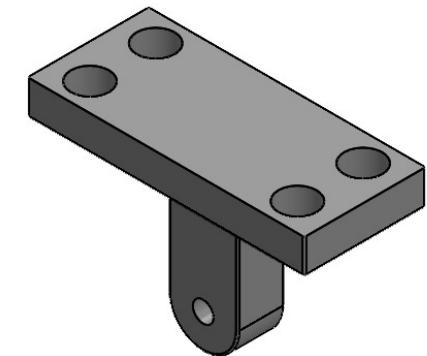
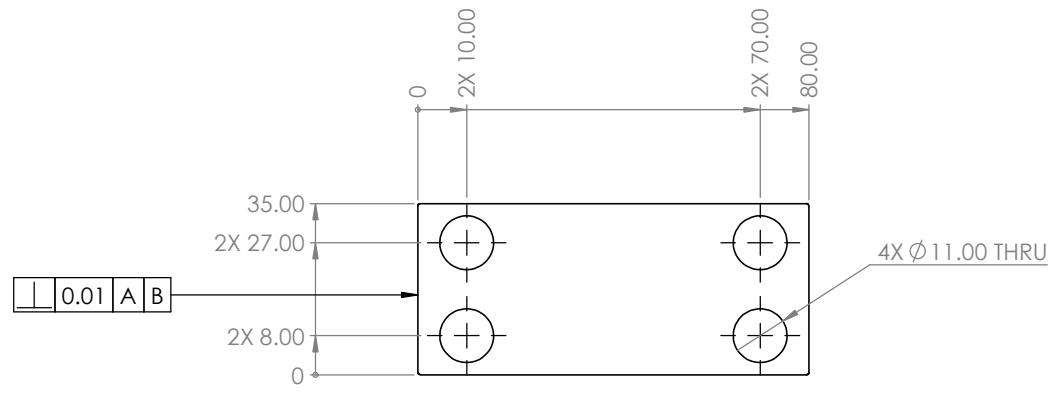
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1

UNITS IN mm UNLESS OTHERWISE SPECIFIED  
 DRAWN IN ACCORDANCE TO ASME Y14.5 DRAFTING STANDARDS  
 UNSPECIFIED RADII 0.5 mm



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UNLESS OTHERWISE SPECIFIED:		DRAWN	NAME	DATE
DIMENSIONS ARE IN INCHES				
TOLERANCES:				
FRACTIONAL ±				
ANGULAR: MACH ± BEND ±				
TWO PLACE DECIMAL ±				
THREE PLACE DECIMAL ±				
INTERPRET GEOMETRIC				
TOLERANCING PER:				
MATERIAL				
NEXT ASSY				
USED ON				
APPLICATION				
DO NOT SCALE DRAWING				

TITLE:		SUB03-DET001	
DWG. NO.		CUFF ATTACH.	
SIZE	REV	B	R3
SCALE: 1:8	WEIGHT:		SHEET 13 OF 15

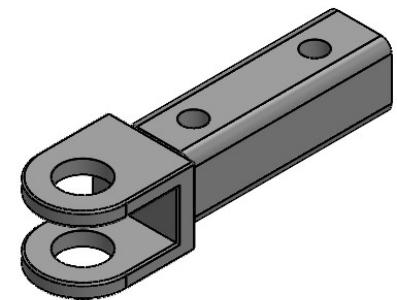
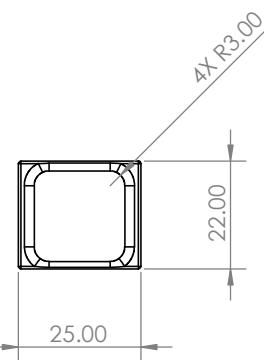
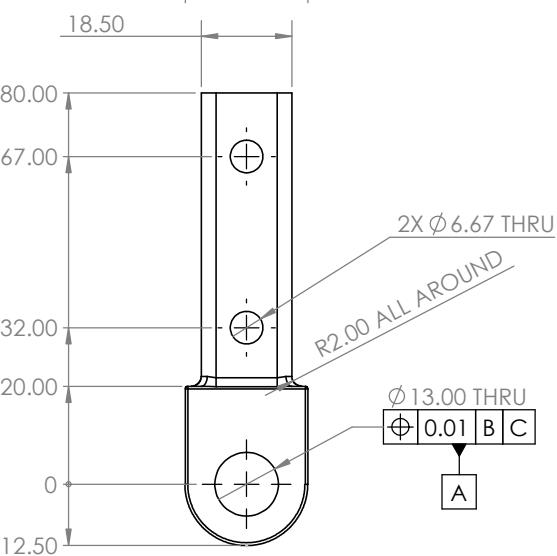
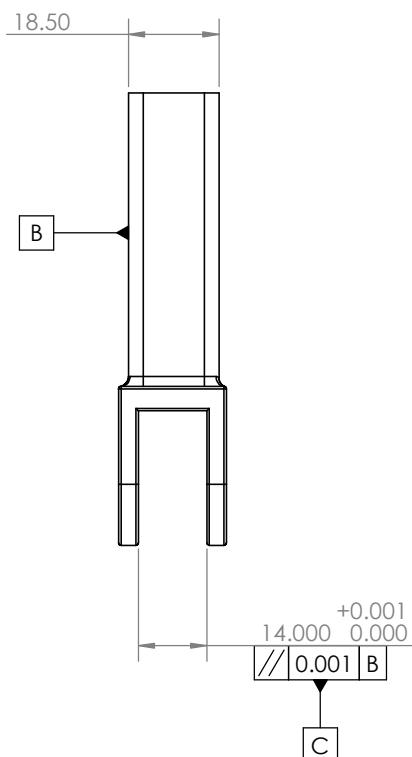
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1

UNITS IN mm UNLESS OTHERWISE SPECIFIED  
 DRAWN IN ACCORDANCE TO ASME Y14.5 DRAFTING STANDARDS  
 UNSPECIFIED RADII 0.5 mm



ISOMETRIC VIEW  
 SCALE: 1:1

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: SUB03-DET002 LINK ATTACH. SIZE DWG. NO. B R3 REV
		DIMENSIONS ARE IN INCHES			
		TOLERANCES:			
		FRACTIONAL: ±			
		ANGULAR: MACH: BEND: ±			
		TWO PLACE DECIMAL: ±			
		THREE PLACE DECIMAL: ±			
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		NEXT ASSY	USED ON	FINISH	
		APPLICATION	DO NOT SCALE DRAWING		

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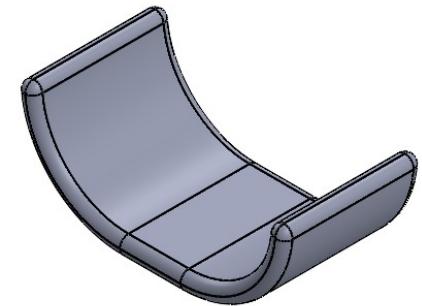
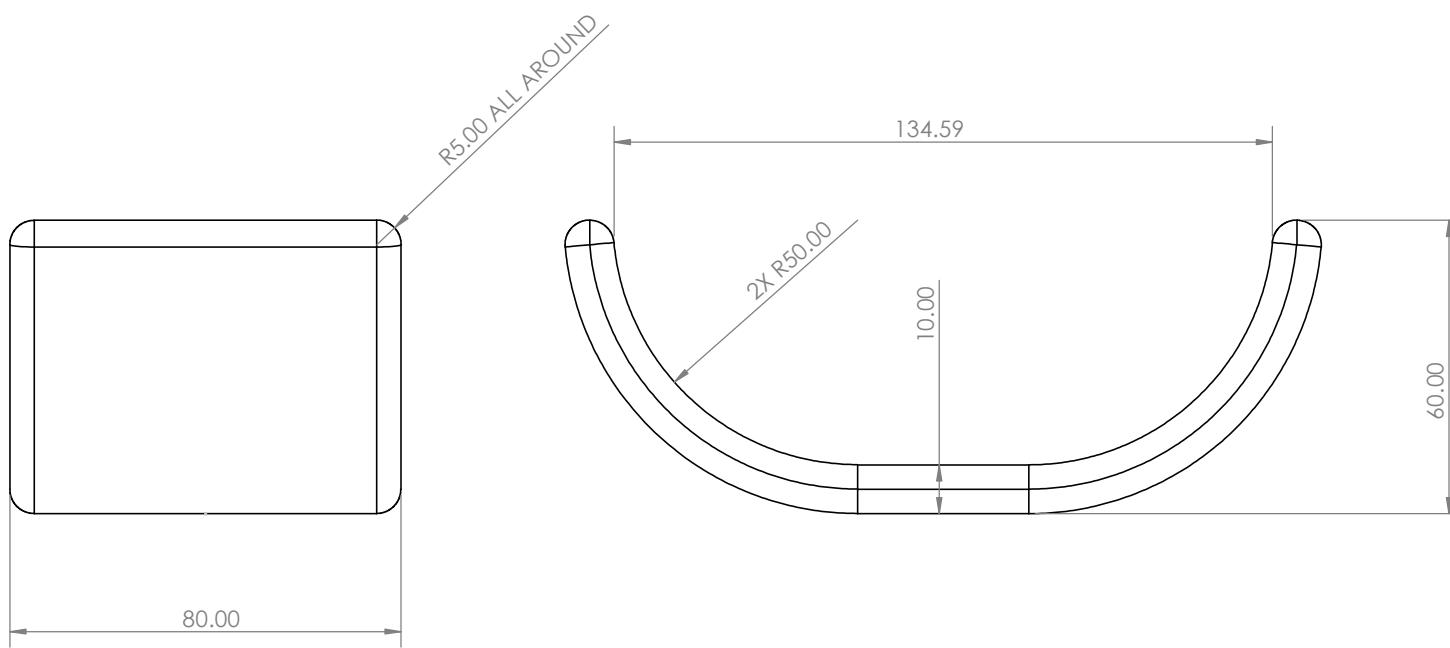
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UNITS IN mm UNLESS OTHERWISE SPECIFIED  
 DRAWN IN ACCORDANCE TO ASME Y14.5 DRAFTING STANDARDS  
 UNSPECIFIED RADII 0.5 mm



		UNLESS OTHERWISE SPECIFIED:		DRAWN C. LAMCA	NAME C. LAMCA	DATE	TITLE: <b>SUB03-DET003</b> <b>ARM CUFF</b>		
		DIMENSIONS ARE IN INCHES							
		TOLERANCES:		CHECKED					
		FRACTIONAL: ± ANGULAR: MACH: ± BEND: ±		ENG APPR.					
		TWO PLACE DECIMAL: ± THREE PLACE DECIMAL: ±		MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER:		Q.A.					
		MATERIAL		COMMENTS:					
		NEXT ASSY	USED ON	FINISH					
		APPLICATION		DO NOT SCALE DRAWING					

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