

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

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

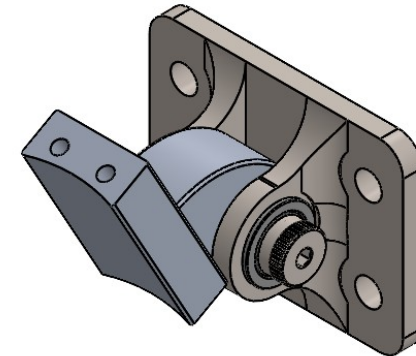
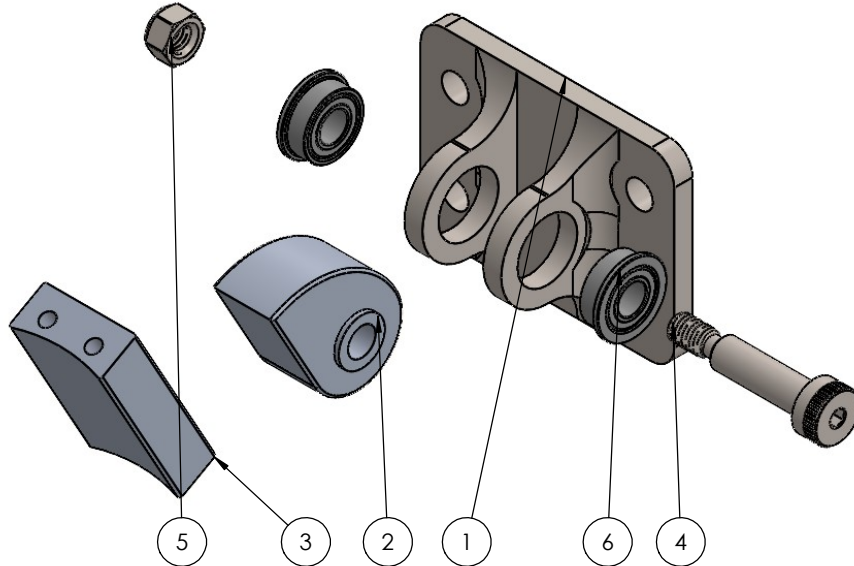
4

3

2

1

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

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE		
		DIMENSIONS ARE IN INCHES	DRAWN	C. LAMCA	TITLE:	
		TOLERANCES:	CHECKED		SUB01	
		FRACTIONAL: $\pm$	ENG APPR.		HINGE ASSEM.	
		ANGULAR: MACH $\pm$ BEND $\pm$	MFG APPR.		SIZE	DWG. NO.
		TWO PLACE DECIMAL $\pm$	Q.A.		B	R3
		THREE PLACE DECIMAL $\pm$	COMMENTS:		REV	
		INTERPRET GEOMETRIC TOLERANCING PER:			SCALE: 1:8	WEIGHT:
		MATERIAL				SHEET 2 OF 15
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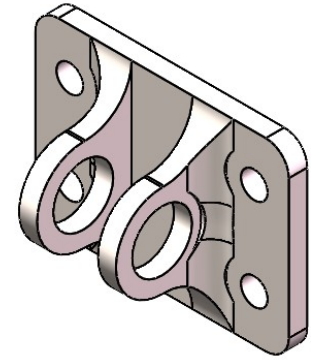
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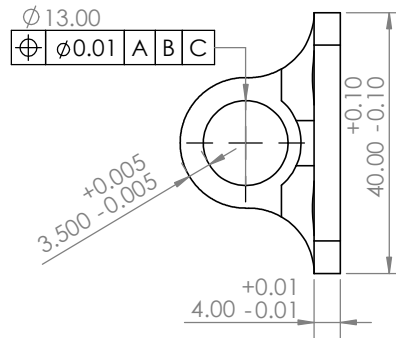
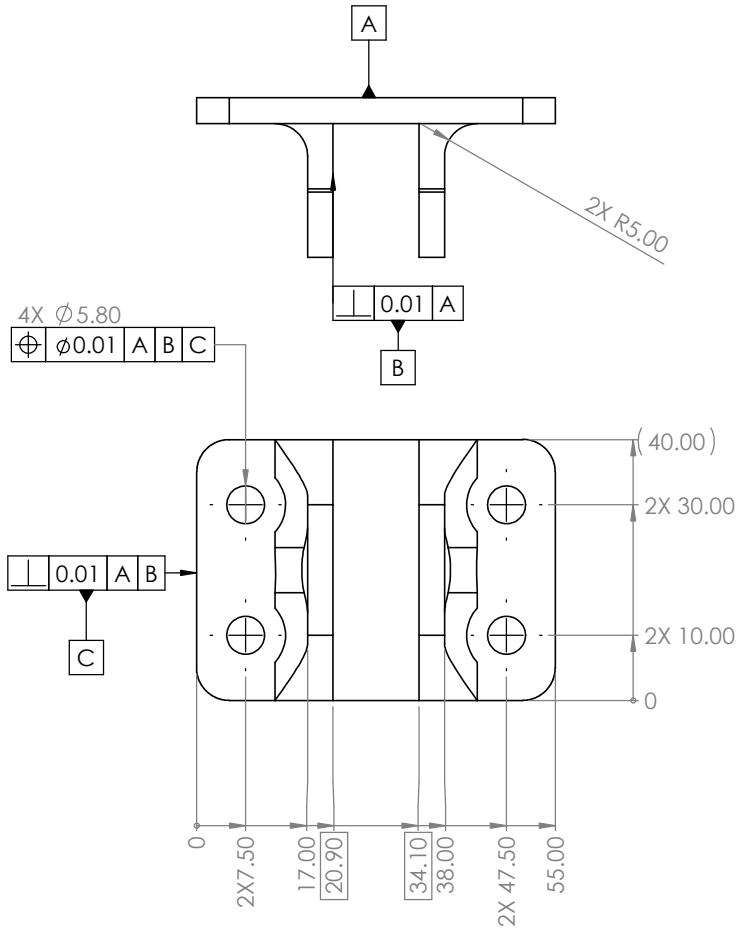
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UNITS IN mm UNLESS OTHERWISE SPECIFIED  
DRAWN IN ACCORDANCE TO ASME Y14.5 DRAFTING STANDARDS



ISOMETRIC VIEW  
SCALE: 4:3



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

4

3

2

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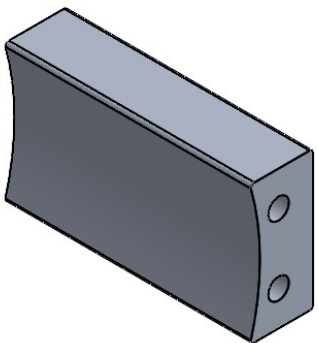
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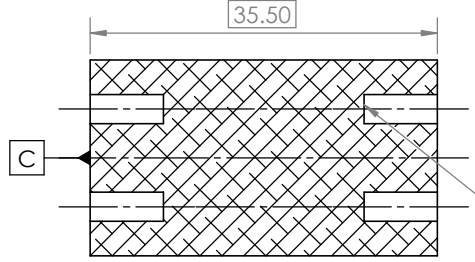
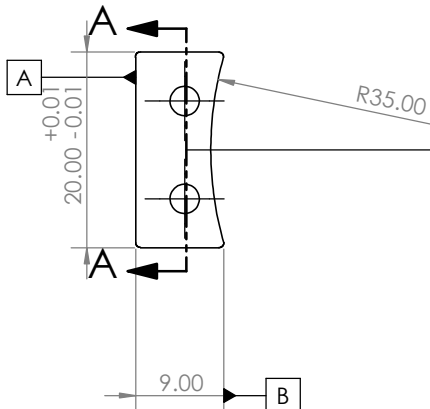
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1

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



ISOMETRIC VIEW  
SCALE: 2:1



SECTION A-A  
SCALE 2 : 1

4X Ø3.00 ∇7.50  
⊕ 0.01 A B C

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <b>SUB01-DET002 HINGE BLOCK</b>
		DIMENSIONS ARE IN INCHES	DRAWN	C. LAMCA	
		TOLERANCES: FRACTIONAL ±	CHECKED		
		ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	ENG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	MFG APPR.		Q.A.
		MATERIAL	COMMENTS:		SIZE
NEXT ASSY	USED ON	FINISH			DWG. NO.
APPLICATION		DO NOT SCALE DRAWING			<b>B</b>
					R3
					REV
					SCALE: 1:8 WEIGHT:
					SHEET 4 OF 15

4

3

2

1

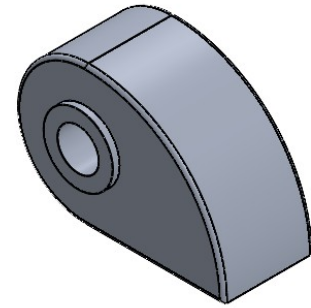
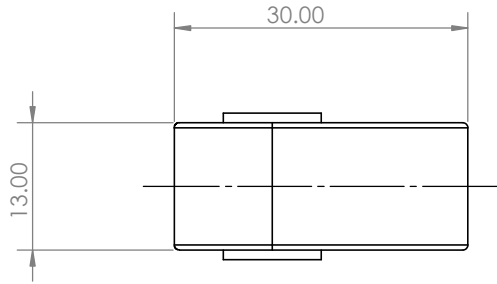
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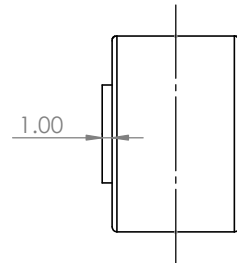
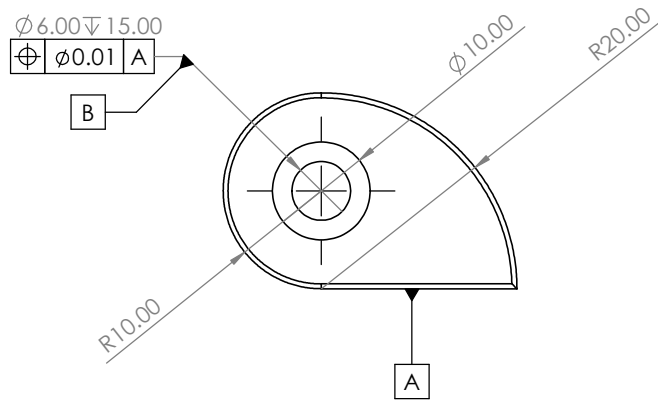
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1

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



ISOMETRIC VIEW  
SCALE: 4:3



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE		
		DIMENSIONS ARE IN INCHES		DRAWN	C. LAMCA	TITLE:	
		TOLERANCES:		CHECKED		SUB01-DET003	
		FRACTIONAL ±		ENG APPR.		HINGE CAM	
		ANGULAR: MACH ± BEND ±		MFG APPR.		SIZE	DWG. NO.
		TWO PLACE DECIMAL ±		Q.A.		<b>B</b>	R3
		THREE PLACE DECIMAL ±		COMMENTS:		REV	
		INTERPRET GEOMETRIC TOLERANCING PER:					
		MATERIAL					
NEXT ASSY		USED ON		FINISH		SCALE: 1:8 WEIGHT:	
APPLICATION		DO NOT SCALE DRAWING				SHEET 5 OF 15	

4

3

2

1

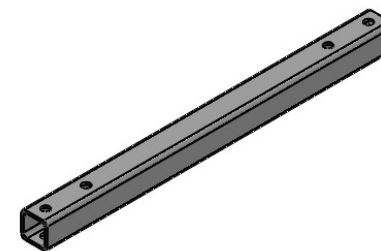
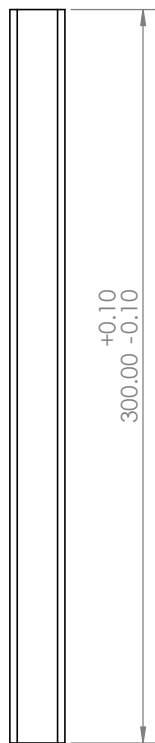
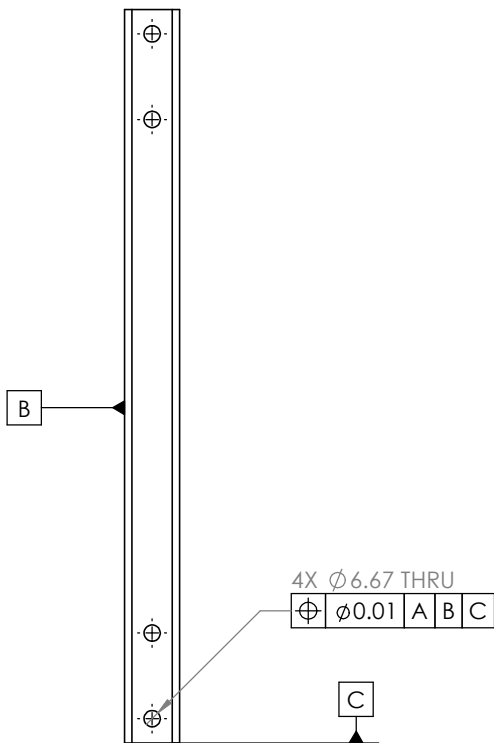
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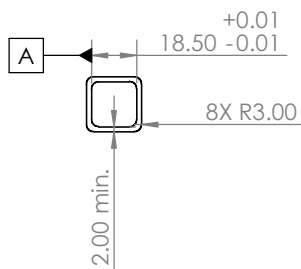
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1

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
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			
FINISH			
NEXT ASSY	USED ON		
APPLICATION	DO NOT SCALE DRAWING		

TITLE: <b>DET001-V1 LINK</b>			
SIZE <b>B</b>	DWG. NO. <b>R3</b>	REV	
SCALE: 1:8		WEIGHT:	SHEET 6 OF 15

4

3

2

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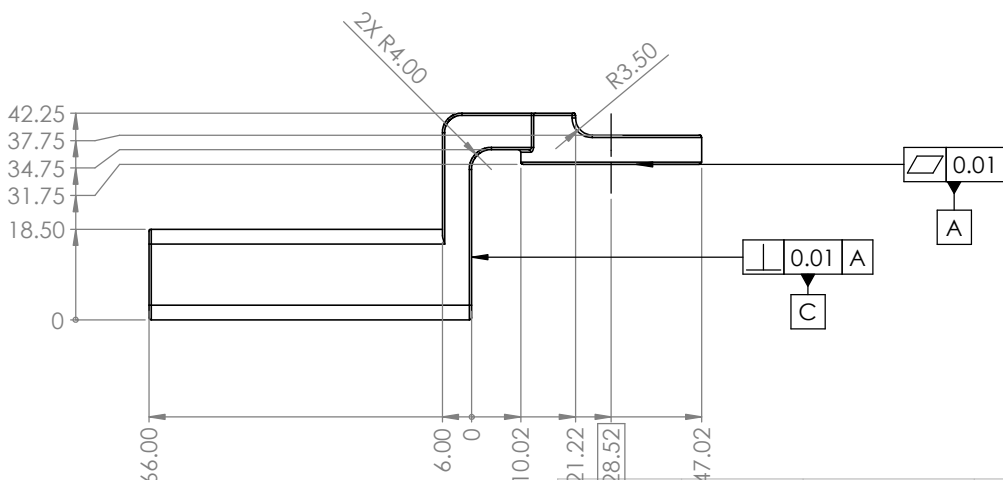
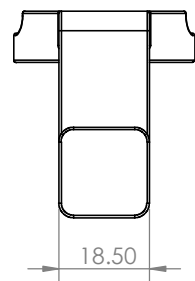
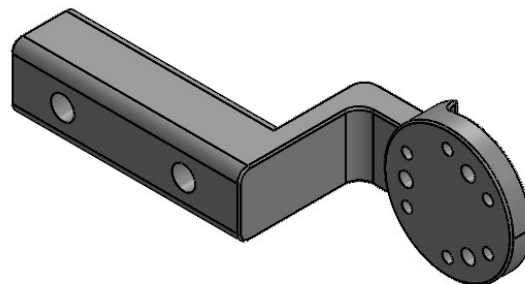
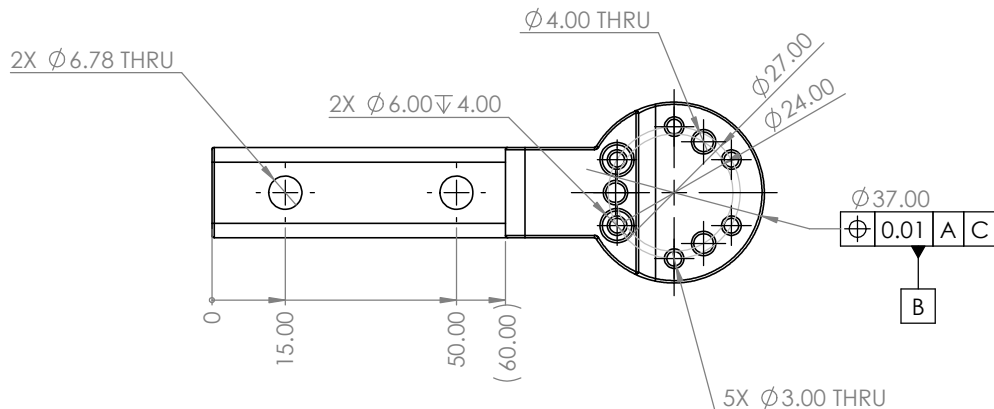
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3

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	TITLE: <b>DET002 MOUNT 1</b>
DIMENSIONS ARE IN INCHES		DRAWN	C. LAMCA	
TOLERANCES:		CHECKED		
FRACTIONAL ±		ENG APPR.		
ANGULAR: MACH ± BEND ±		MFG APPR.		Q.A.
TWO PLACE DECIMAL ±		COMMENTS:		SIZE DWG. NO. REV
THREE PLACE DECIMAL ±				<b>B</b> R3
INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:8 WEIGHT: SHEET 7 OF 15
MATERIAL				
FINISH				
NEXT ASSY	USED ON			
APPLICATION		DO NOT SCALE DRAWING		

4

3

2

1

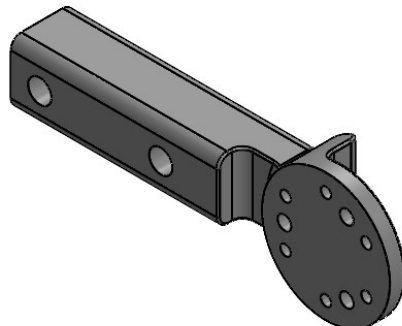
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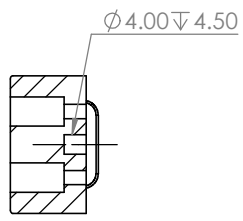
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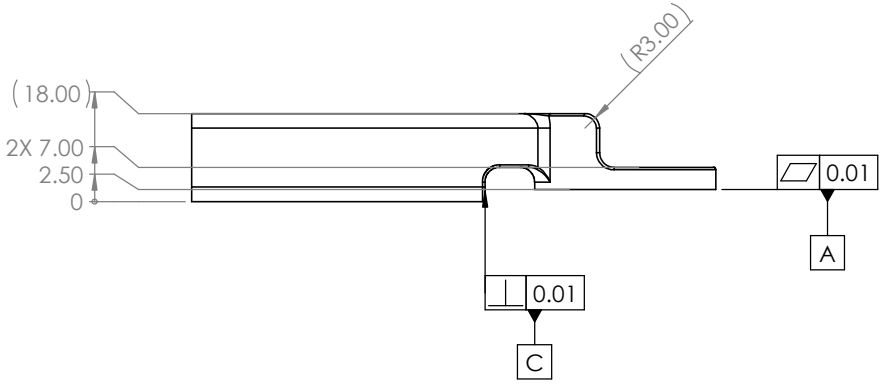
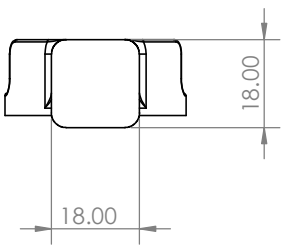
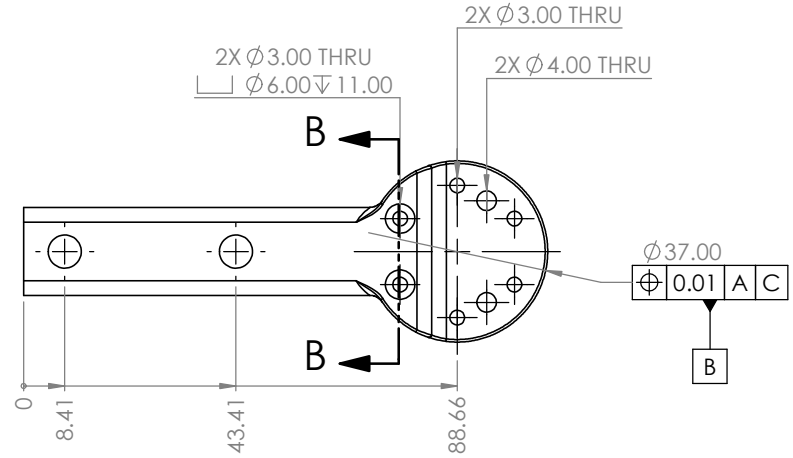
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 UNSPECIFIED RADII 0.5 mm  
 SPECIFIED 3 mm FOR ALL MAJOR RADII



ISOMETRIC VIEW  
 SCALE: 1:1



SECTION B-B  
 SCALE 1:1



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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <b>DET003 MOUNT 1-2</b>
		DIMENSIONS ARE IN INCHES	DRAWN	C. LAMCA	
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		Q.A.
		TWO PLACE DECIMAL ±	COMMENTS:		SIZE DWG. NO. REV
		THREE PLACE DECIMAL ±			<b>B</b> <b>R3</b>
		INTERPRET GEOMETRIC TOLERANCING PER:			SCALE: 1:8 WEIGHT:
		MATERIAL			SHEET 8 OF 15
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

4

3

2

1



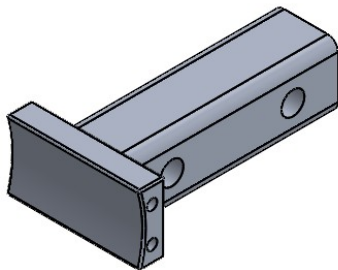
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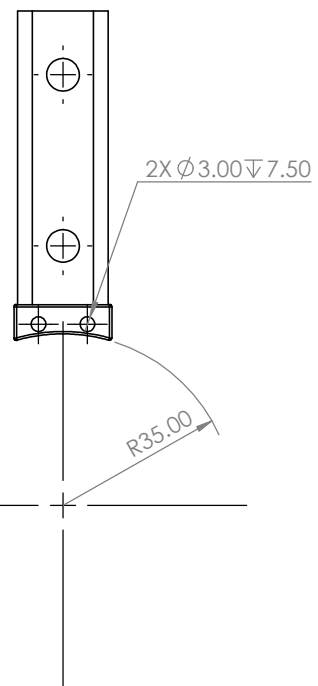
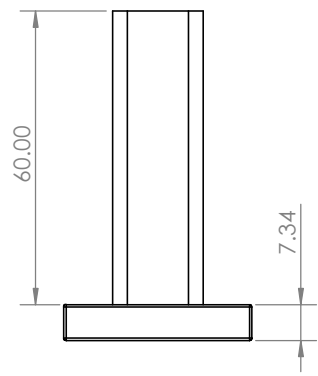
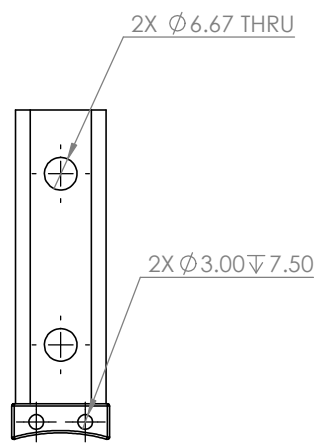
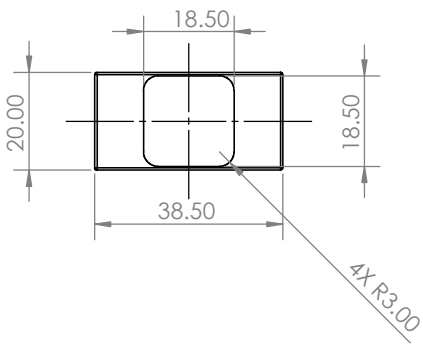
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UNITS IN mm UNLESS OTHERWISE SPECIFIED  
DRAWN IN ACCORDANCE TO ASME Y14.5 DRAFTING STANDARDS  
UNSPECIFIED RADII 0.5 mm



ISOMETRIC VIEW  
SCALE: 1:1



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

4

3

2

1

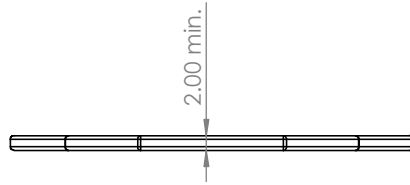
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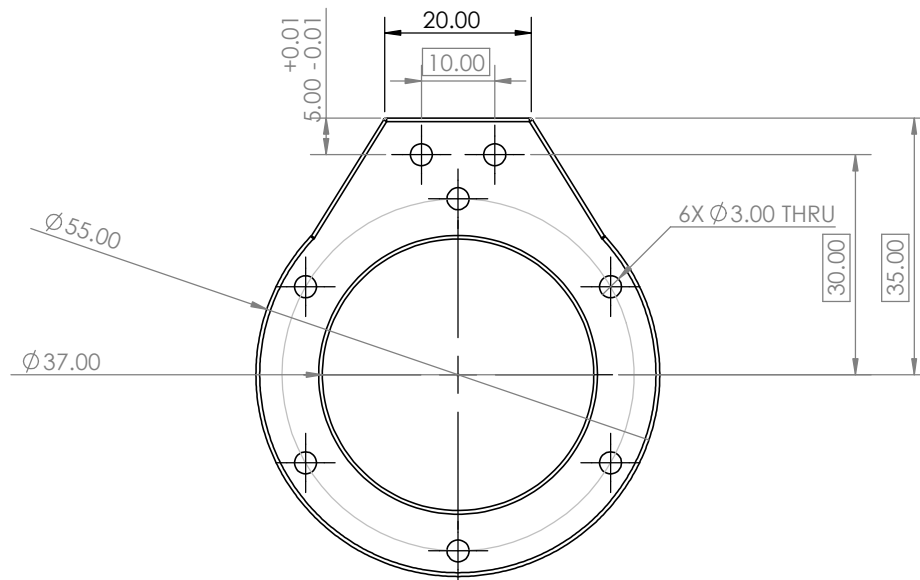
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1

UNITS IN mm UNLESS OTHERWISE SPECIFIED  
DRAWN IN ACCORADNCE 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		
		DIMENSIONS ARE IN INCHES	DRAWN	C. LAMCA		
		TOLERANCES:	CHECKED		TITLE:	
		FRACTIONAL ±	ENG APPR.		DET005	
		ANGULAR: MACH ± BEND ±	MFG APPR.		FRONT MOTOR PLATE	
		TWO PLACE DECIMAL ±	Q.A.		SIZE	DWG. NO.
		THREE PLACE DECIMAL ±	COMMENTS:		<b>B</b>	<b>R3</b>
		INTERPRET GEOMETRIC TOLERANCING PER:			REV	
NEXT ASSY	USED ON	MATERIAL				
		FINISH				
APPLICATION		DO NOT SCALE DRAWING			SCALE: 1:8	WEIGHT:
						SHEET 10 OF 15

4

3

2

1

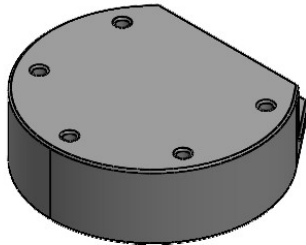
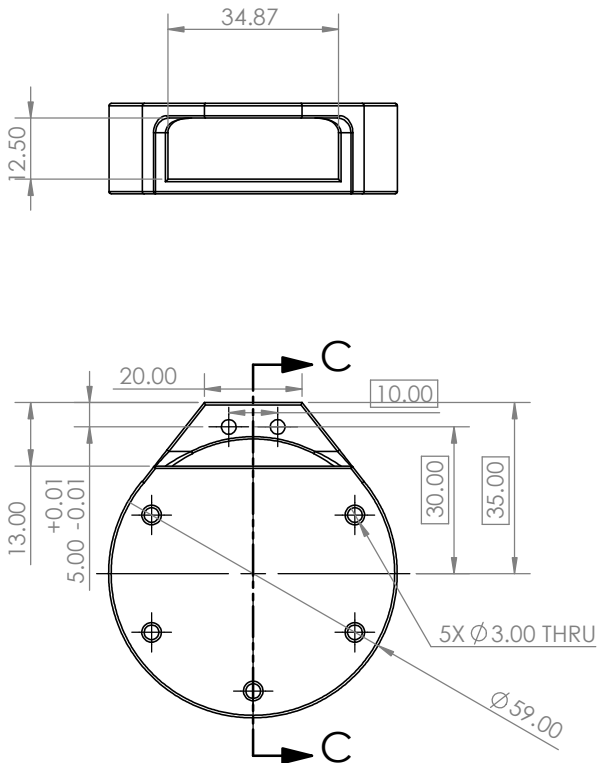
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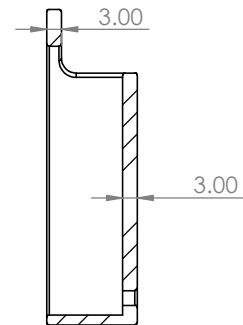
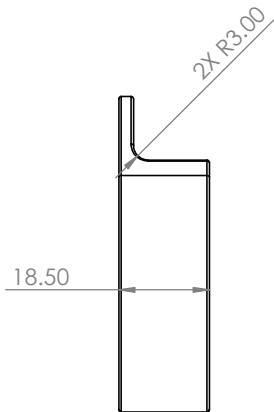
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1

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



SECTION C-C  
SCALE 1 : 1

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE		
		DIMENSIONS ARE IN INCHES	DRAWN	C. LAMCA		
		TOLERANCES:	CHECKED		TITLE:	
		FRACTIONAL ±	ENG APPR.		DET006-V1	
		ANGULAR: MACH ± BEND ±	MFG APPR.		REAR MOTOR PLATE	
		TWO PLACE DECIMAL ±	Q.A.		SIZE	DWG. NO.
		THREE PLACE DECIMAL ±	COMMENTS:		<b>B</b>	<b>R3</b>
		INTERPRET GEOMETRIC TOLERANCING PER:			REV	
NEXT ASSY	USED ON	MATERIAL				
		FINISH				
APPLICATION		DO NOT SCALE DRAWING			SCALE: 1:8	WEIGHT:
						SHEET 11 OF 15

4

3

2

1

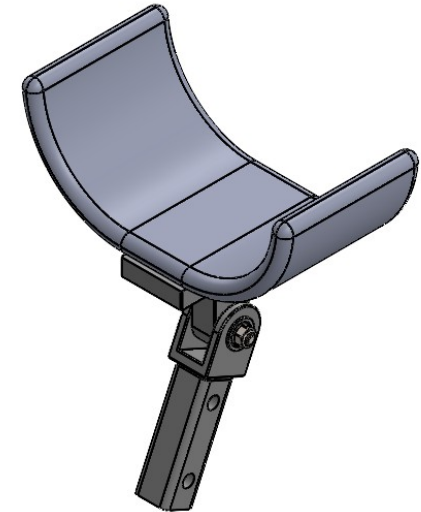
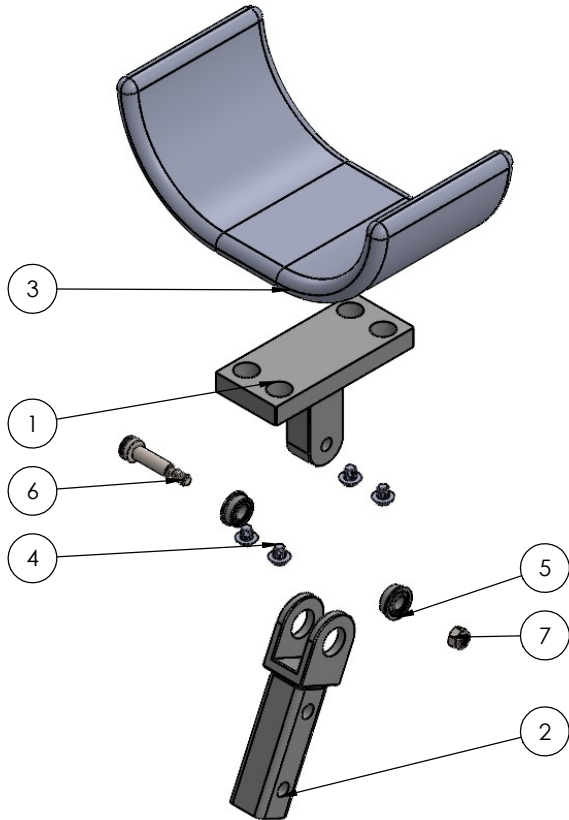
4

3

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
		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			
				TITLE:	
				SUB03 END EFFECTOR	
SIZE	DWG. NO.	REV			
B	R3				
SCALE: 1:8				WEIGHT:	SHEET 12 OF 15

4

3

2

1

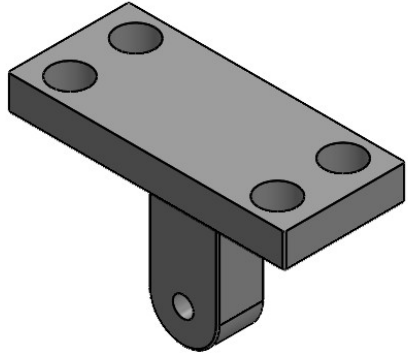
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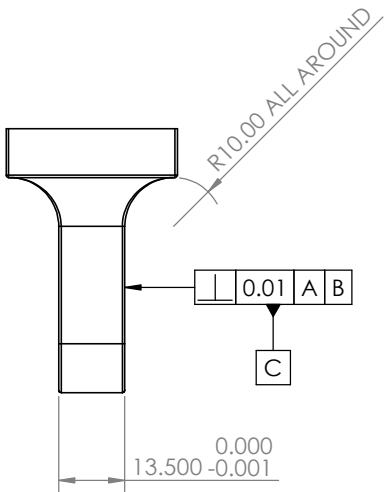
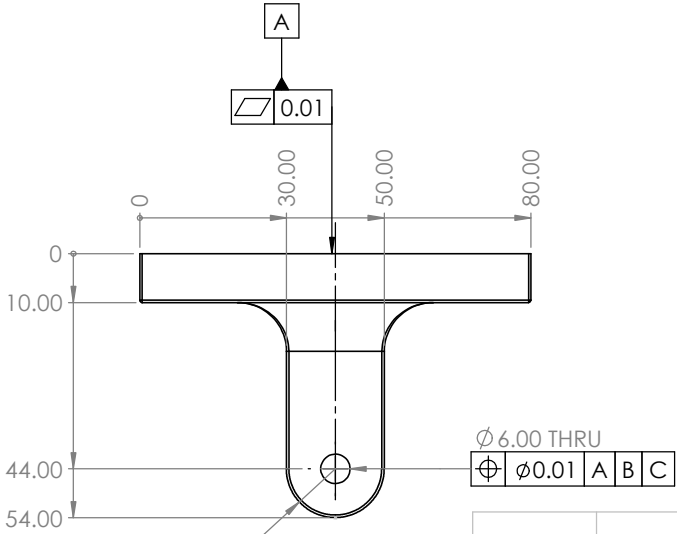
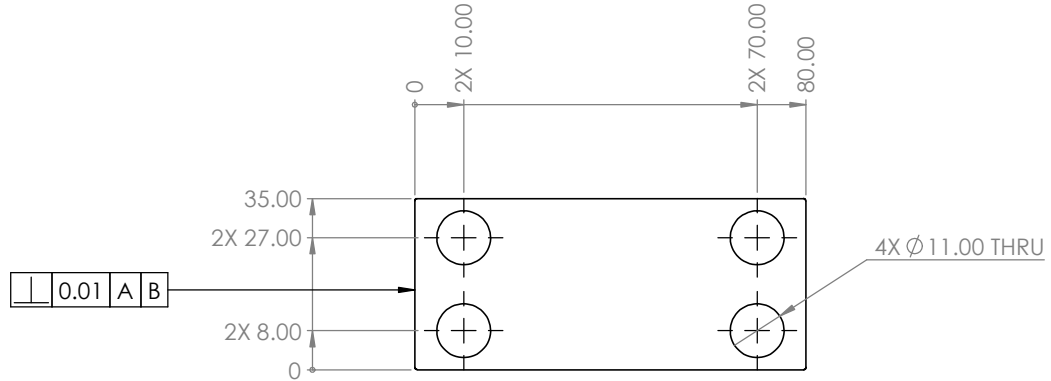
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1

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



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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <b>SUB03-DET001          CUFF ATTACH.</b>
		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:			SIZE
		MATERIAL			DWG. NO.
		FINISH			REV
NEXT ASSY	USED ON	APPLICATION			<b>B</b>
		DO NOT SCALE DRAWING			<b>R3</b>
					SCALE: 1:8
					WEIGHT:
					SHEET 13 OF 15

4

3

2

1

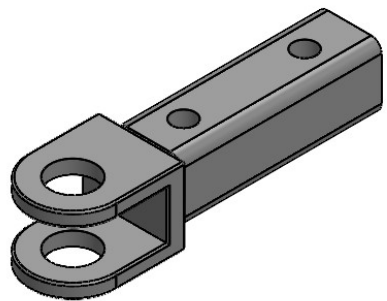
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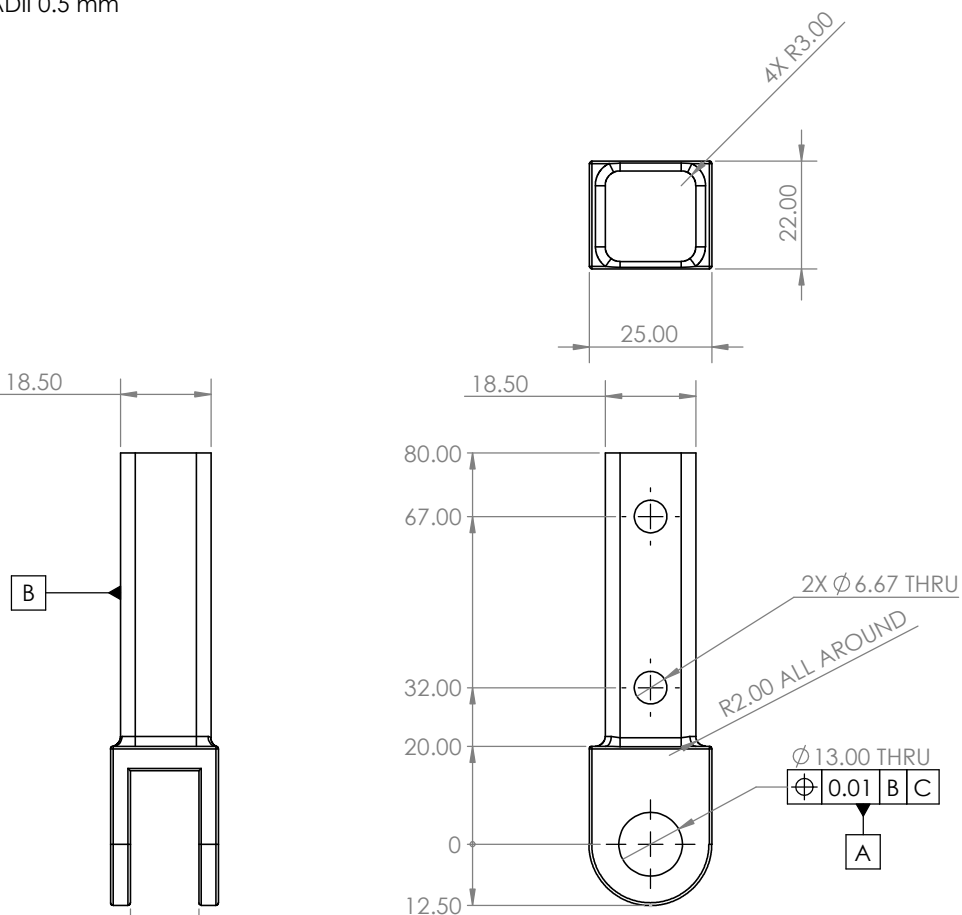
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UNITS IN mm UNLESS OTHERWISE SPECIFIED  
DRAWN IN ACCORDANCE TO ASME Y14.5 DRAFTING STANDARDS  
UNSPECIFIED RADII 0.5 mm



ISOMETRIC VIEW  
SCALE: 1:1



B

A

+0.001  
14.000 0.000  
0.001 B

C

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE		
		DIMENSIONS ARE IN INCHES	DRAWN	C. LAMCA	TITLE:	
		TOLERANCES:	CHECKED		SUB03-DET002	
		FRACTIONAL ±	ENG APPR.		LINK ATTACH.	
		ANGULAR: MACH ± BEND ±	MFG APPR.		SIZE	DWG. NO.
		TWO PLACE DECIMAL ±	Q.A.		B	R3
		THREE PLACE DECIMAL ±	COMMENTS:		REV	
		INTERPRET GEOMETRIC TOLERANCING PER:			SCALE: 1:8	WEIGHT:
		MATERIAL				SHEET 14 OF 15
		FINISH				
NEXT ASSY	USED ON	APPLICATION				
		DO NOT SCALE DRAWING				

4

3

2

1

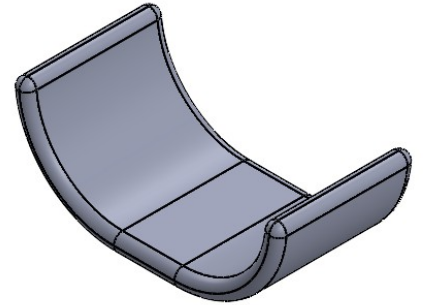
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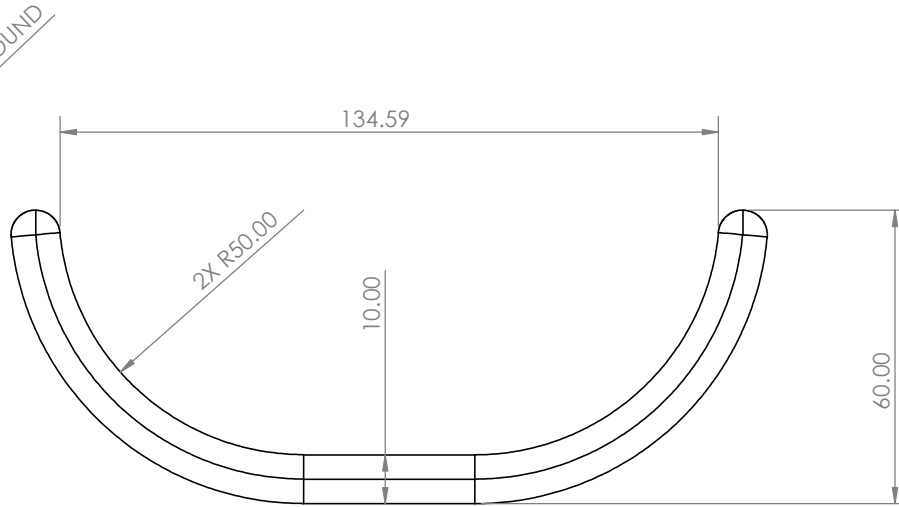
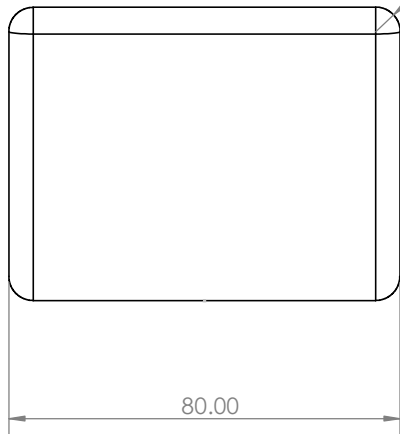
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1

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



ISOMETRIC VIEW  
SCALE: 1:2



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		DIMENSIONS ARE IN INCHES	DRAWN	C. LAMCA		
		TOLERANCES:	CHECKED		TITLE:	
		FRACTIONAL ±	ENG APPR.		SUB03-DET003	
		ANGULAR: MACH ± BEND ±	MFG APPR.		ARM CUFF	
		TWO PLACE DECIMAL ±	Q.A.		SIZE	DWG. NO.
		THREE PLACE DECIMAL ±	COMMENTS:		<b>B</b>	R3
		INTERPRET GEOMETRIC TOLERANCING PER:			REV	
NEXT ASSY	USED ON	MATERIAL			SCALE: 1:8	WEIGHT:
		FINISH				SHEET 15 OF 15
APPLICATION		DO NOT SCALE DRAWING				

4

3

2

1