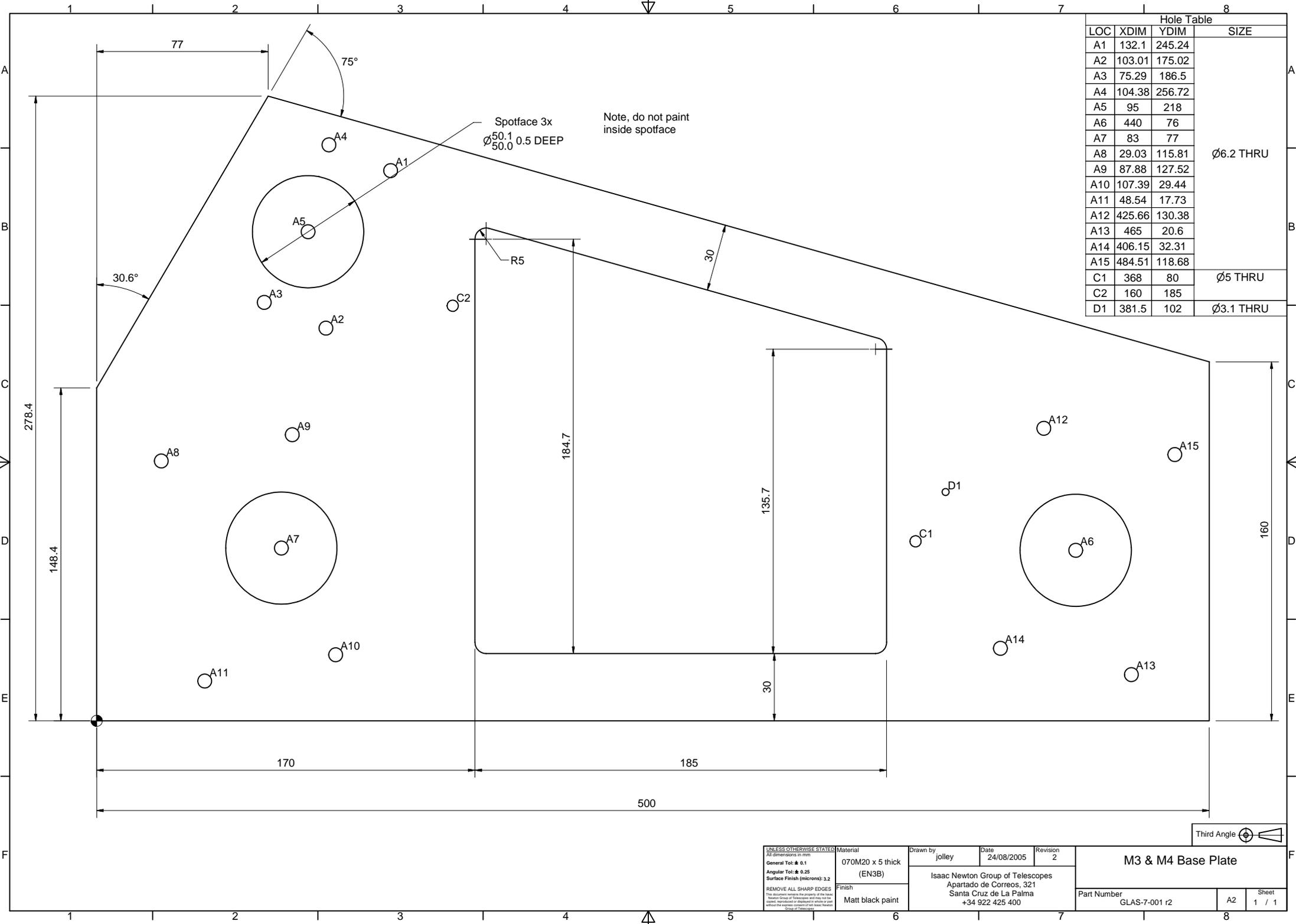


11	4	BS 4168 - M6 x 16	Hexagon Socket Head Cap Screw
10	15	BS 4464 - M6 Form A	Spring Washer
9	8	ISO 4762 - M6 x 12 or BS equivalent	Hexagon Socket Head Cap Screw
8	3	ISO 4762 - M6 x 20 or BS equivalent	Hexagon Socket Head Cap Screw
7	6	ISO 4762 - M6 x 35 or BS equivalent	Hexagon Socket Head Cap Screw
6	6	ISO 7089 - 6 - 140 HV or BS equivalent	Washer
5	1	GLAS-7-004 r1	M3 mount
4	1	GLAS-7-003 r1	M4 wedged mount
3	3	GLAS-7-002 r2	Main support leg
2	1	GLAS-7-001 r2	M3 & M4 base plate
1	2	GLAS-7-1-000 r2	Motorised mirror gimbal (M3 & M4)
ITEM	QTY	PART NUMBER	DESCRIPTION

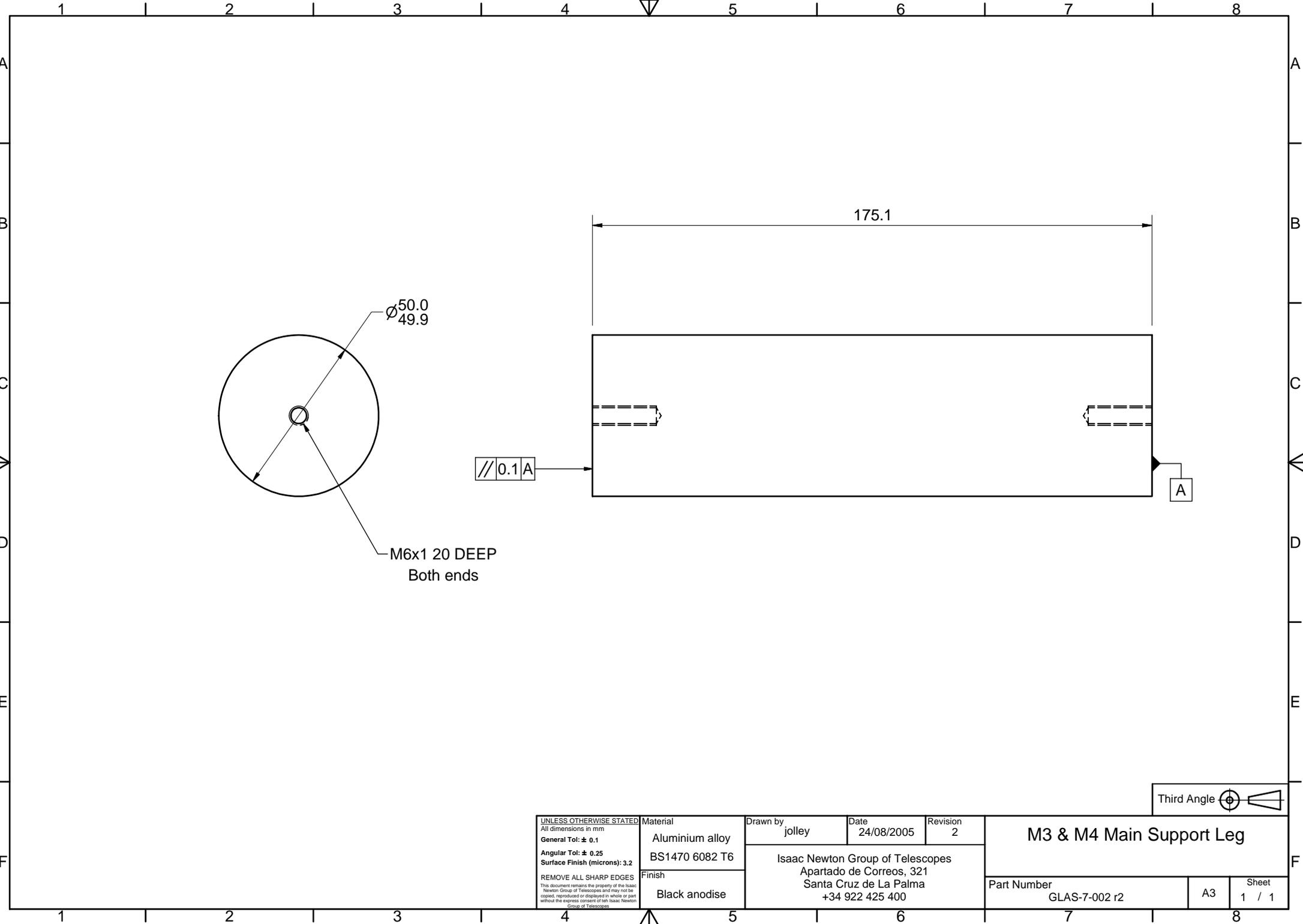
<small> ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED GENERAL TOL: ±0.1 ANGULAR TOL: ±0.5 SURFACE FINISH: (see note) 3.2 FINISH: </small>	<small> DRAWN BY: jolley DATE: 24/08/2005 REVISION: 2 ISAAC: Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400 </small>	M3 & M4 Mounts Part Number: GLAS-7-000 r2 A1 / 1 / 1
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Hole Table			
LOC	XDIM	YDIM	SIZE
A1	132.1	245.24	Ø6.2 THRU
A2	103.01	175.02	
A3	75.29	186.5	
A4	104.38	256.72	
A5	95	218	
A6	440	76	
A7	83	77	
A8	29.03	115.81	
A9	87.88	127.52	
A10	107.39	29.44	
A11	48.54	17.73	
A12	425.66	130.38	
A13	465	20.6	
A14	406.15	32.31	
A15	484.51	118.68	
C1	368	80	Ø5 THRU
C2	160	185	Ø3.1 THRU
D1	381.5	102	

<small>UNLESS OTHERWISE STATED: All dimensions in mm General Tol: ± 0.1 Angular Tol: ± 0.25 Surface Finish (microns): 3.2 REMOVE ALL SHARP EDGES <small>This document remains the property of the Isaac Newton Group of Telescopes and may not be copied, reproduced or distributed in whole or in part without the written consent of the Isaac Newton Group of Telescopes.</small> </small>	Material	Drawn by	Date	Revision	M3 & M4 Base Plate	
	070M20 x 5 thick (EN3B)	jolley	24/08/2005	2		
	Finish	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400			Part Number	Sheet
Matt black paint				GLAS-7-001 r2	A2	1 / 1



∅ 50.0
49.9

M6x1 20 DEEP
Both ends

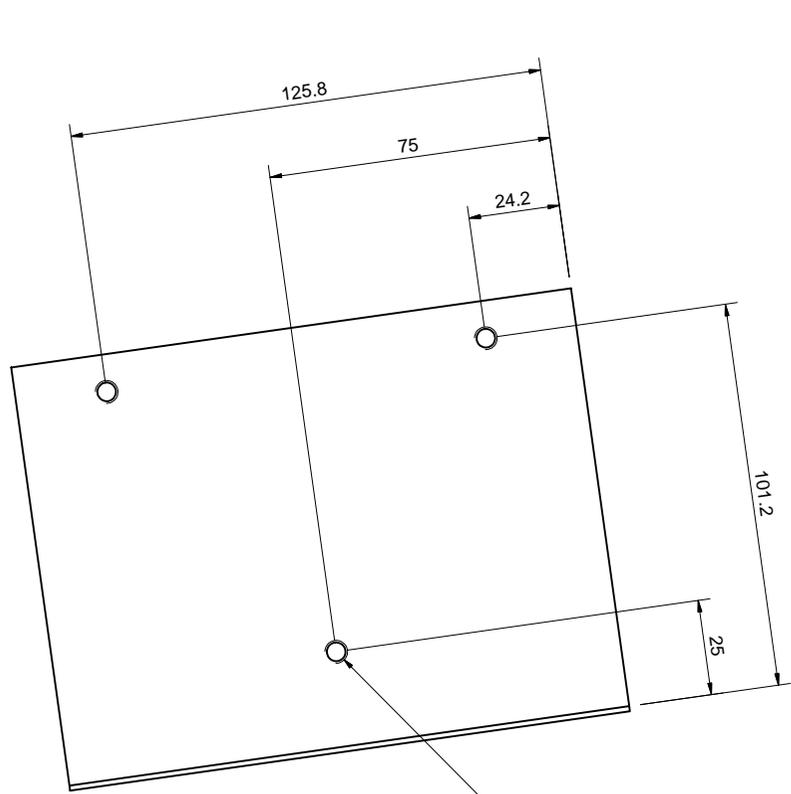
175.1

// 0.1 A

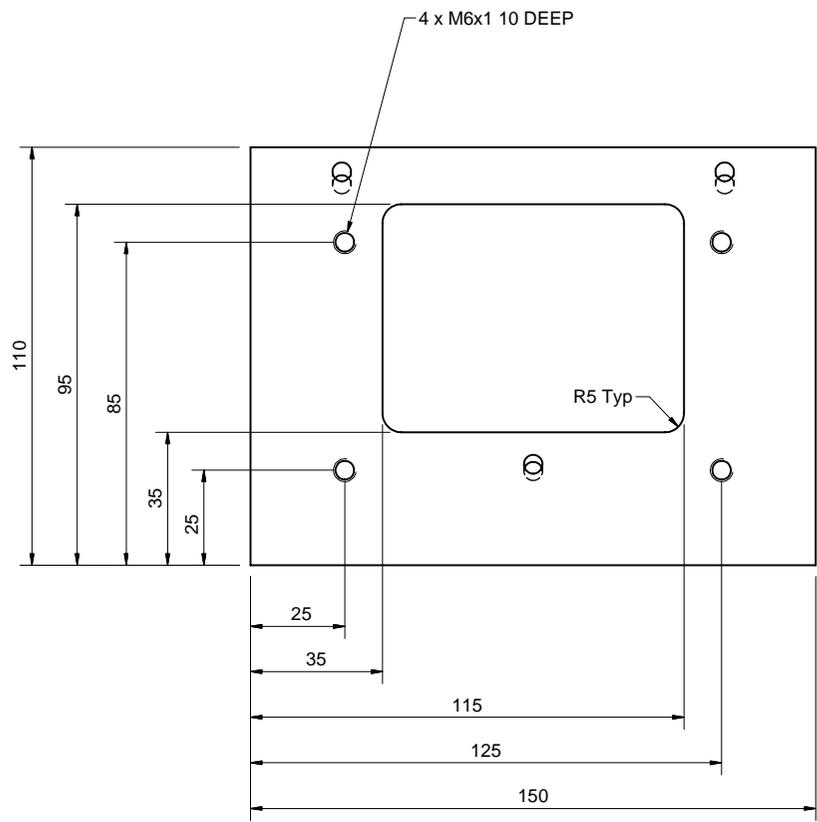
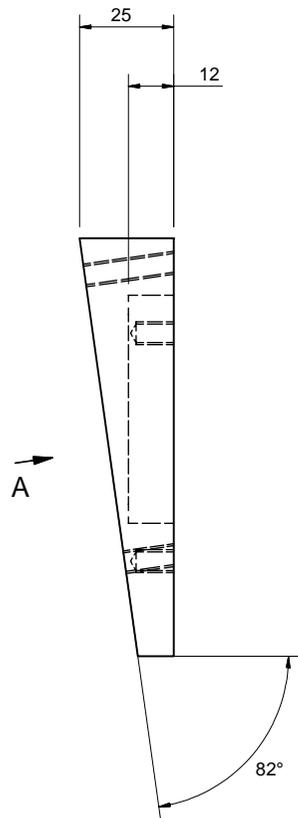
A

Third Angle

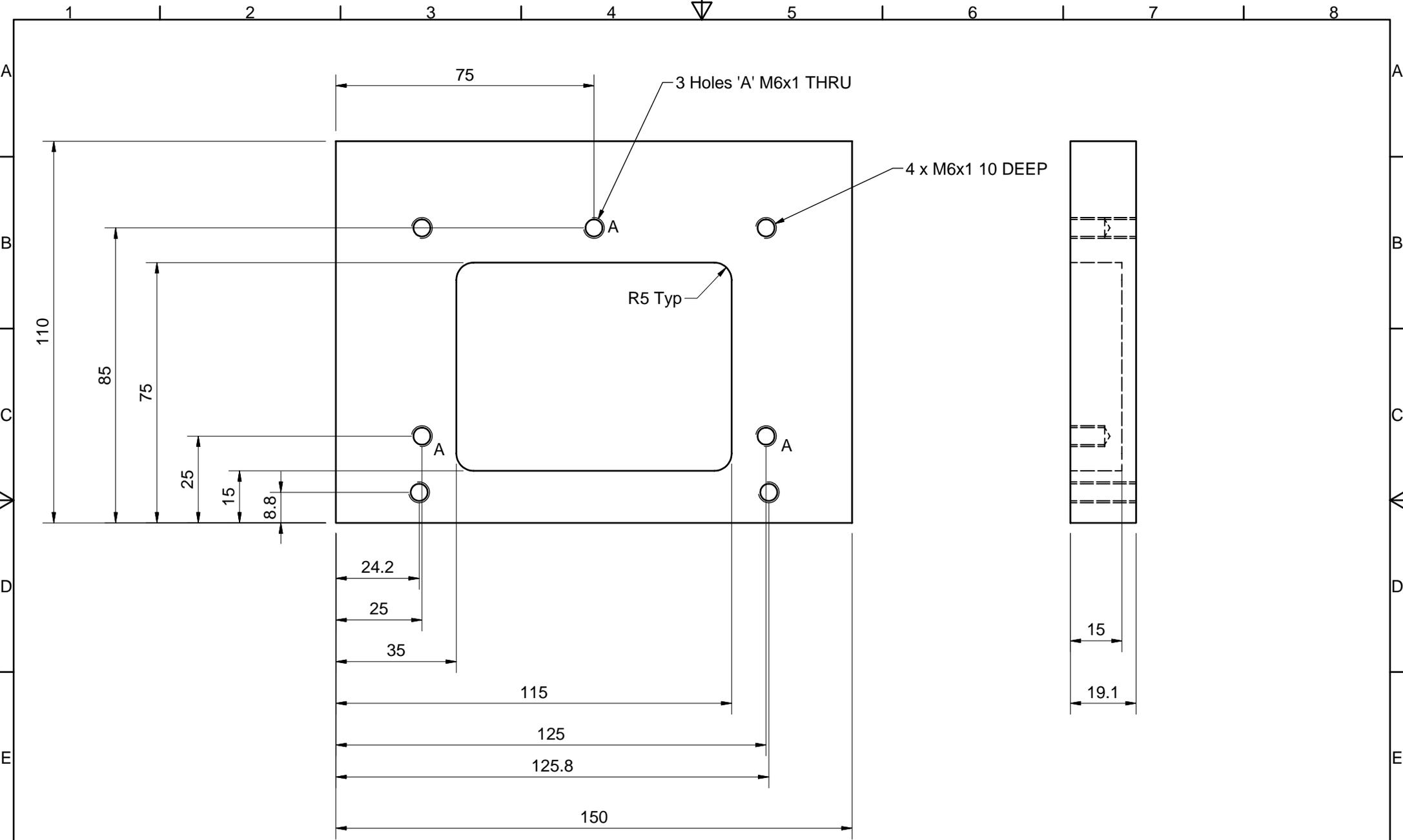
<small>UNLESS OTHERWISE STATED</small> All dimensions in mm General Tol: ± 0.1 Angular Tol: ± 0.25 Surface Finish (microns): 3.2 REMOVE ALL SHARP EDGES <small>This document remains the property of the Isaac Newton Group of Telescopes and may not be copied, reproduced or displayed in whole or part without the express consent of the Isaac Newton Group of Telescopes</small>	Material	Drawn by	Date	Revision	M3 & M4 Main Support Leg		
	Aluminium alloy	jolley	24/08/2005	2			
	BS1470 6082 T6	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400			Part Number	Sheet	
Finish	Black anodise				GLAS-7-002 r2	A3	1 / 1



Auxiliary view on A
Showing hole details



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	Aluminium alloy BS1470 6082 T6	jolley	27/06/2005	1			
	Finish	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400			Part Number	Sheet	
	Black anodise				GLAS-7-003 r1	A2	1 / 1

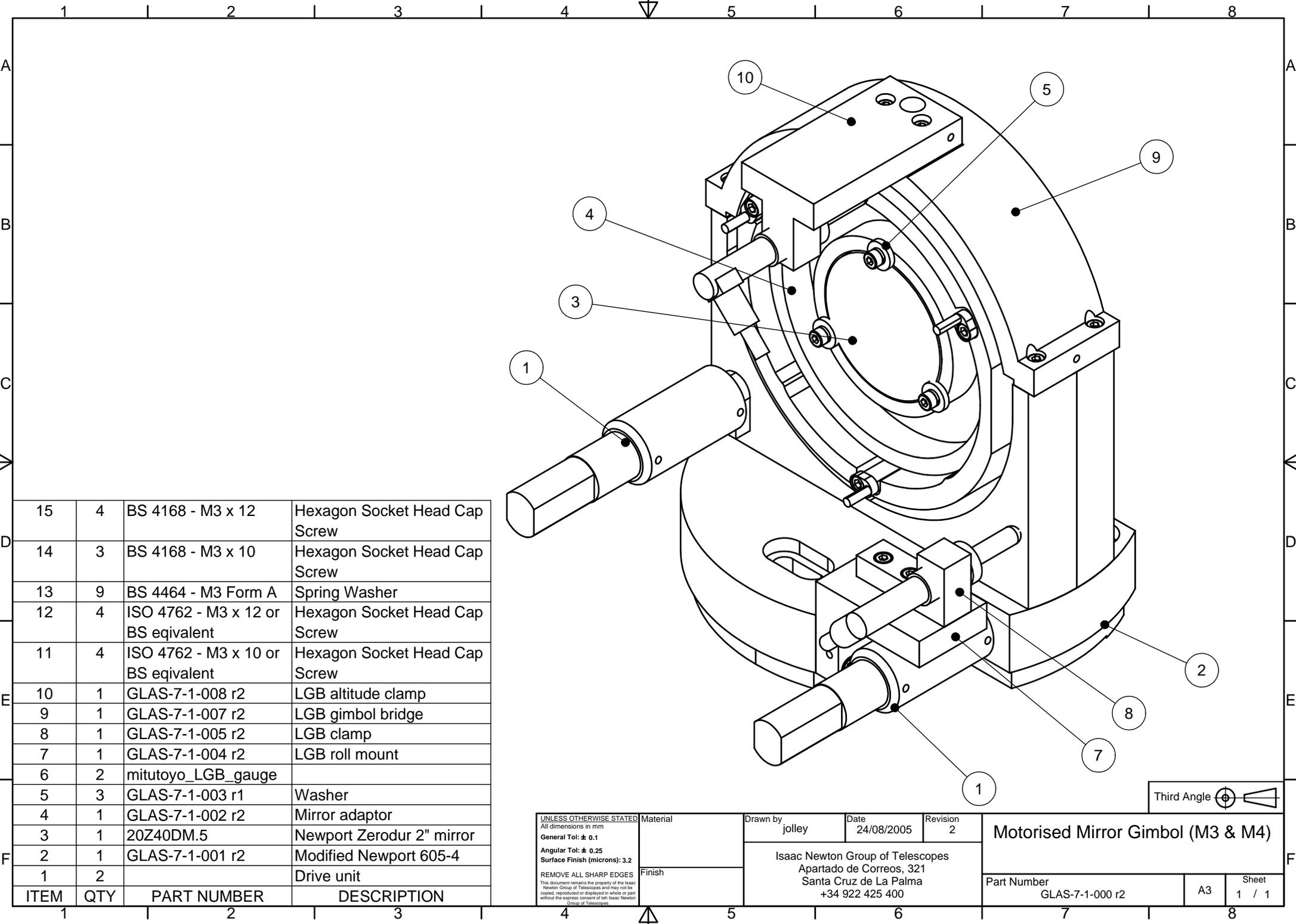


UNLESS OTHERWISE STATED
 All dimensions in mm
 General Tol: ± 0.1
 Angular Tol: ± 0.25
 Surface Finish (microns): 3.2
 REMOVE ALL SHARP EDGES
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Material
 Aluminium alloy
 BS1470 6082 T6
 Finish
 Black anodise

Drawn by
 jolley
 Date
 27/06/2005
 Revision
 1
 Isaac Newton Group of Telescopes
 Apartado de Correos, 321
 Santa Cruz de La Palma
 +34 922 425 400

M3 Mount
 Part Number
 GLAS-7-004 r1
 A3
 Sheet
 1 / 1



15	4	BS 4168 - M3 x 12	Hexagon Socket Head Cap Screw
14	3	BS 4168 - M3 x 10	Hexagon Socket Head Cap Screw
13	9	BS 4464 - M3 Form A	Spring Washer
12	4	ISO 4762 - M3 x 12 or BS equivalent	Hexagon Socket Head Cap Screw
11	4	ISO 4762 - M3 x 10 or BS equivalent	Hexagon Socket Head Cap Screw
10	1	GLAS-7-1-008 r2	LGB altitude clamp
9	1	GLAS-7-1-007 r2	LGB gimbol bridge
8	1	GLAS-7-1-005 r2	LGB clamp
7	1	GLAS-7-1-004 r2	LGB roll mount
6	2	mitutoyo_LGB_gauge	
5	3	GLAS-7-1-003 r1	Washer
4	1	GLAS-7-1-002 r2	Mirror adaptor
3	1	20Z40DM.5	Newport Zerodur 2" mirror
2	1	GLAS-7-1-001 r2	Modified Newport 605-4
1	2		Drive unit
ITEM	QTY	PART NUMBER	DESCRIPTION

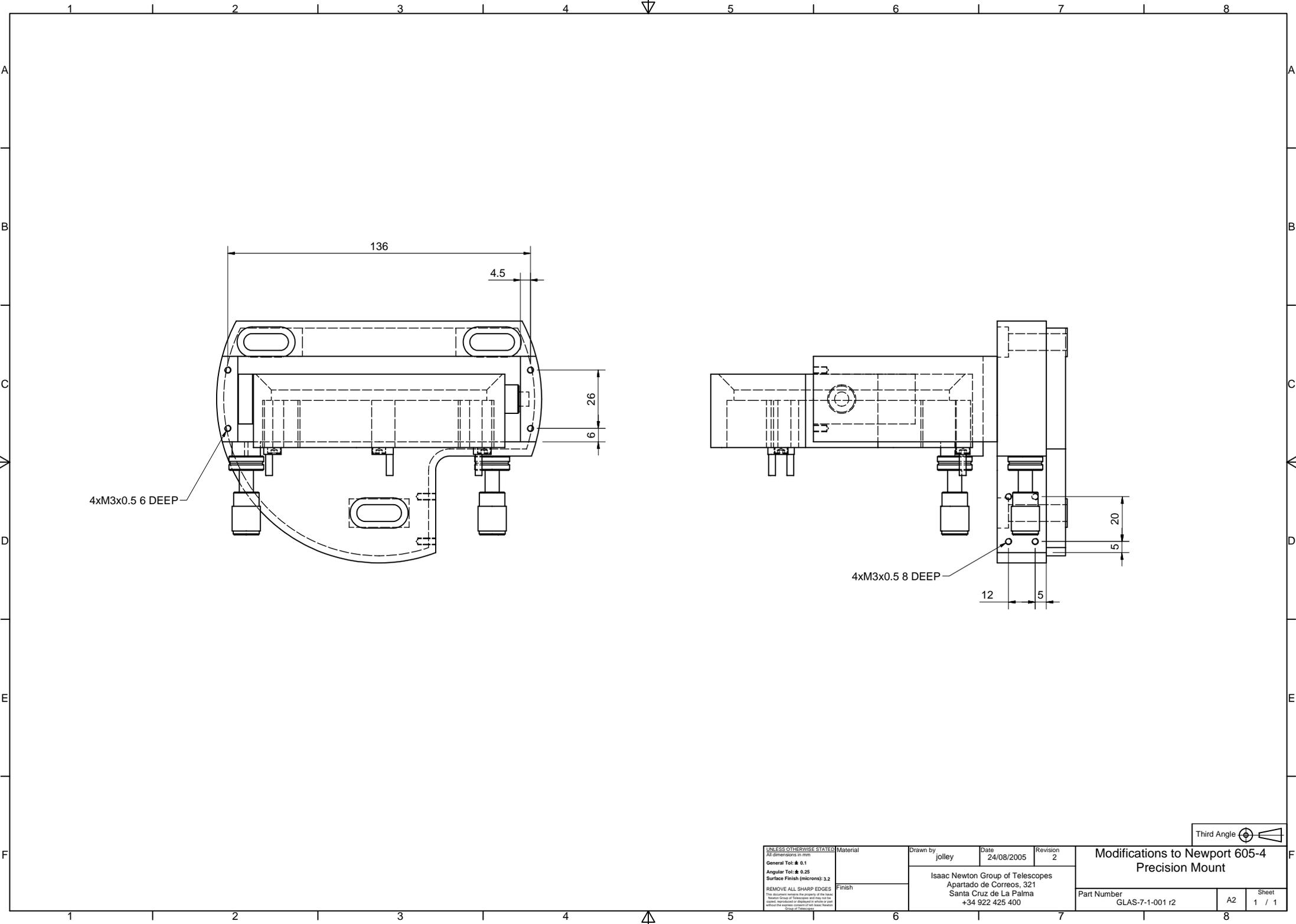
UNLESS OTHERWISE STATED
 All dimensions in mm
 General Tol: ± 0.1
 Angular Tol: ± 0.25
 Surface Finish (microns): 3.2
 REMOVE ALL SHARP EDGES
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Material
 Drawn by jolley
 Date 24/08/2005
 Revision 2
 Isaac Newton Group of Telescopes
 Apartado de Correos, 321
 Santa Cruz de La Palma
 +34 922 425 400

Third Angle

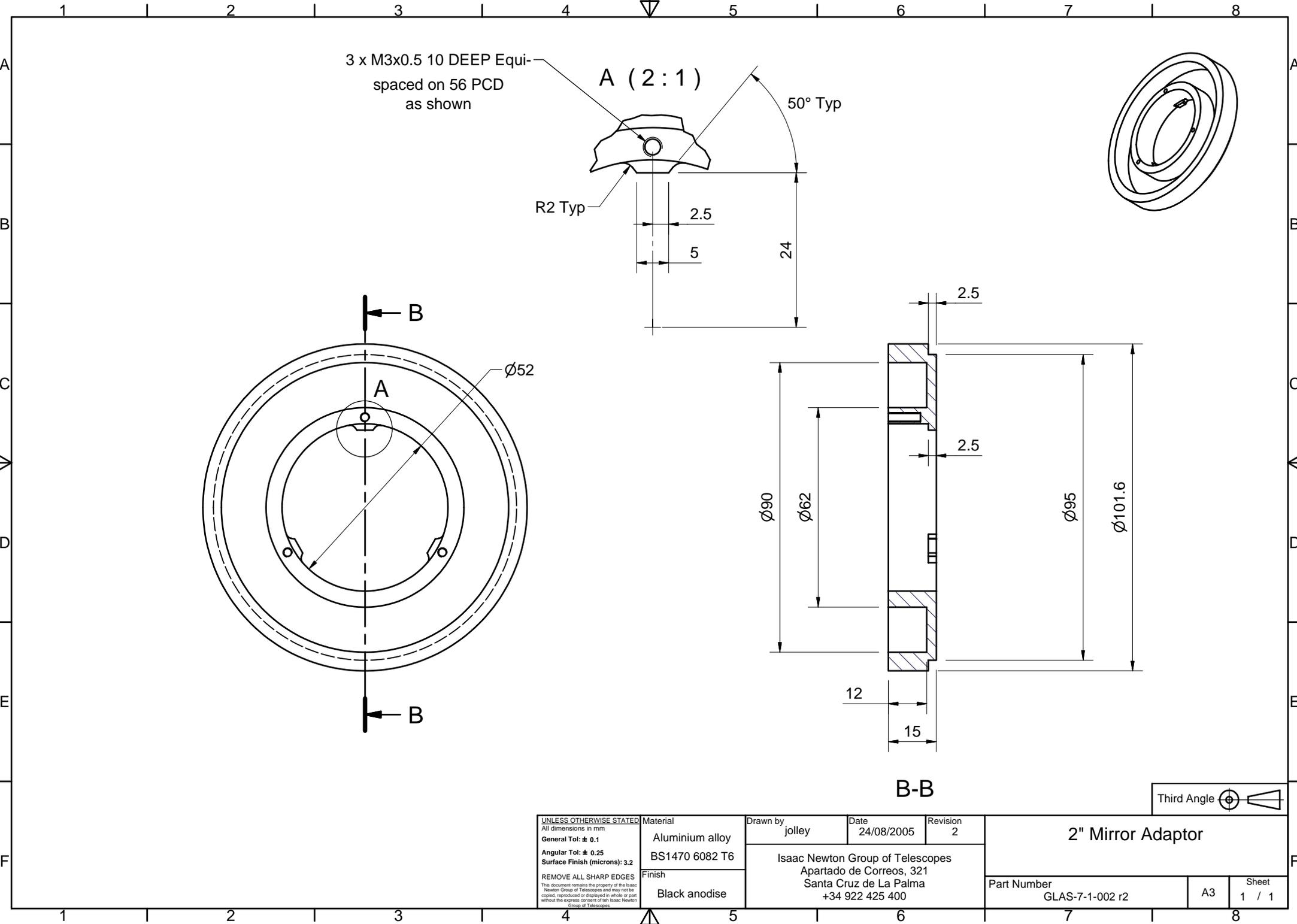
Motorised Mirror Gimbal (M3 & M4)

Part Number GLAS-7-1-000 r2
 Sheet 1 / 1



Third Angle

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	Finish	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400				



3 x M3x0.5 10 DEEP Equi-spaced on 56 PCD as shown

A (2:1)

50° Typ

R2 Typ

2.5

5

24

B

Ø52

A

2.5

Ø90

Ø62

2.5

Ø95

Ø101.6

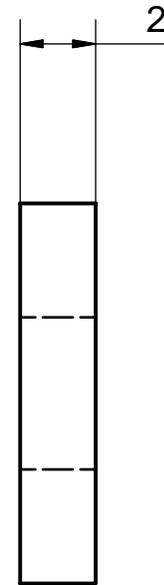
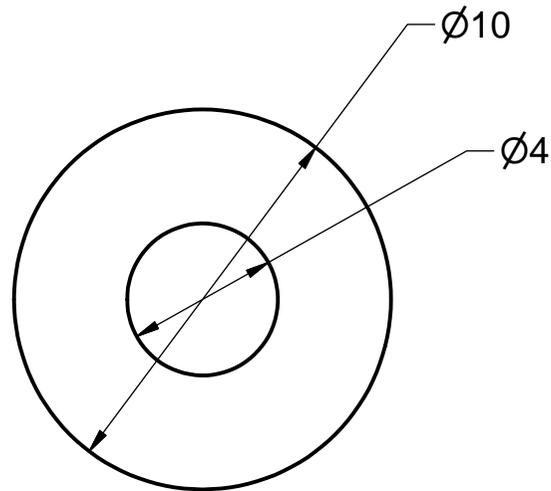
12

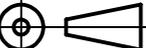
15

B-B

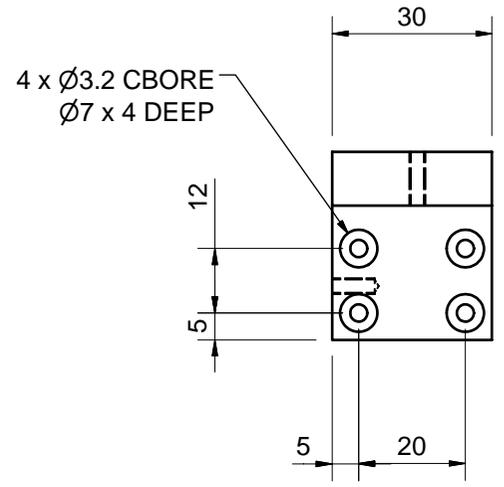
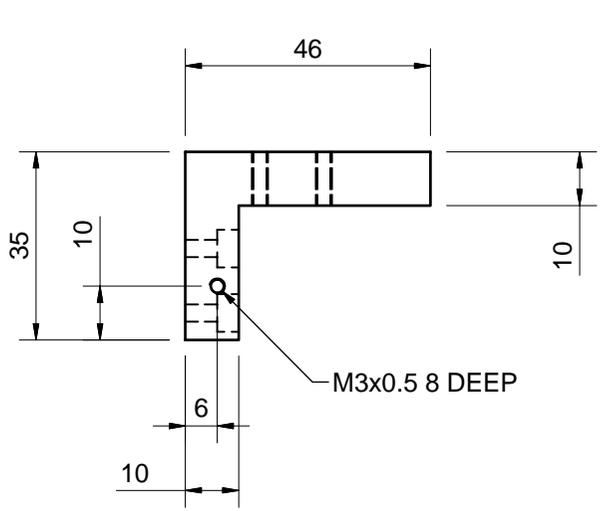
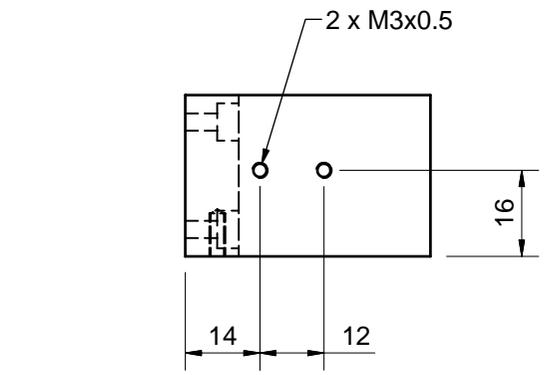
Third Angle

<small>UNLESS OTHERWISE STATED</small> All dimensions in mm General Tol: ± 0.1 Angular Tol: ± 0.25 Surface Finish (microns): 3.2 REMOVE ALL SHARP EDGES <small>This document remains the property of the Isaac Newton Group of Telescopes and may not be copied, reproduced or displayed in whole or part without the express consent of the Isaac Newton Group of Telescopes</small>	Material	Drawn by	Date	Revision	2" Mirror Adaptor		
	Aluminium alloy BS1470 6082 T6	jolley	24/08/2005	2			
	Finish	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400			Part Number	Sheet	
Black anodise				GLAS-7-1-002 r2	A3	1 / 1	

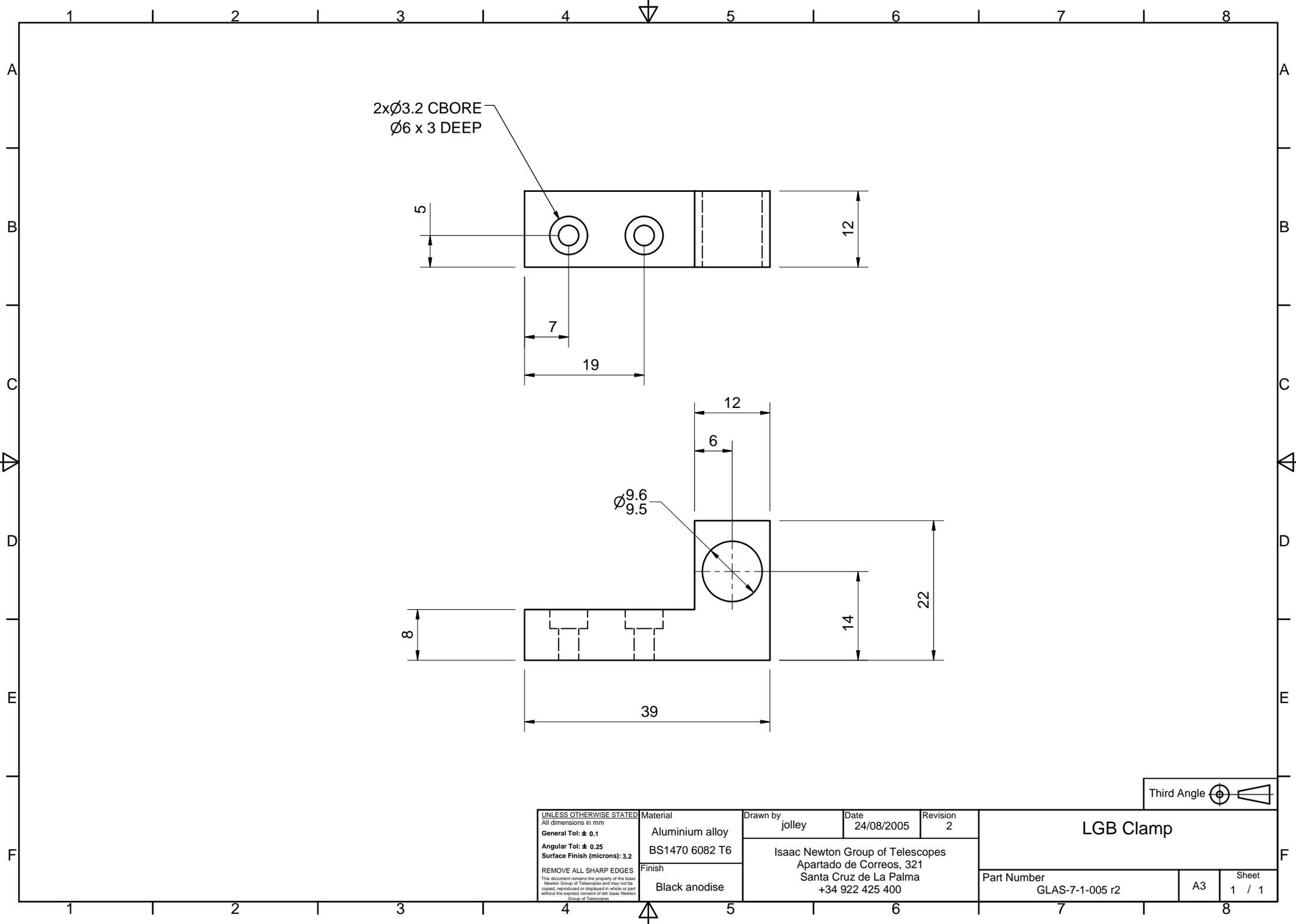


Third Angle 

UNLESS OTHERWISE STATED All dimensions in mm General Tol: ± 0.1 Angular Tol: ± 0.25 Surface Finish (microns): 3.2 REMOVE ALL SHARP EDGES <small>This document remains the property of the Isaac Newton Group of Telescopes and may not be copied, reproduced or displayed in whole or part without the express consent of the Isaac Newton Group of Telescopes.</small>	Material	Black delrin	Drawn by	jolley	Date	28/06/2005	Revision	1	<h1>Washer</h1>		
	Finish	Clean	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400			Part Number		GLAS-7-1-003 r1			

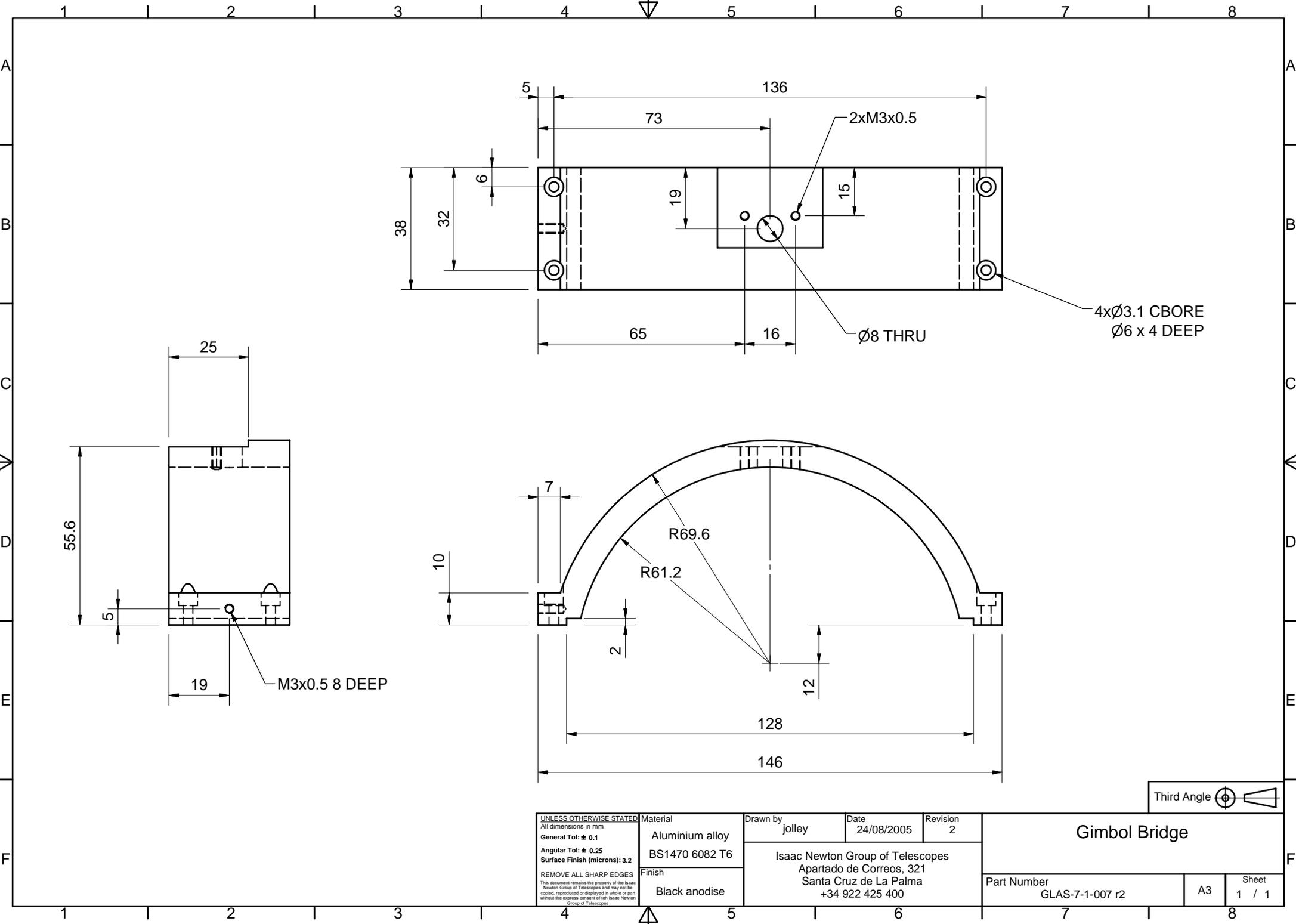


<small>UNLESS OTHERWISE STATED</small> All dimensions in mm General Tol: ± 0.1 Angular Tol: ± 0.25 Surface Finish (microns): 3.2 REMOVE ALL SHARP EDGES <small>This document remains the property of the Isaac Newton Group of Telescopes and may not be copied, reproduced or displayed in whole or part without the express consent of the Isaac Newton Group of Telescopes</small>	Material	Drawn by	Date	Revision	<h2>Roll Mount</h2>		
	Aluminium alloy	jolley	24/08/2005	2			
	BS1470 6280 T6	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400			Part Number	Sheet	
Finish	Black anodise				GLAS-7-1-004 r2	A3	1 / 1



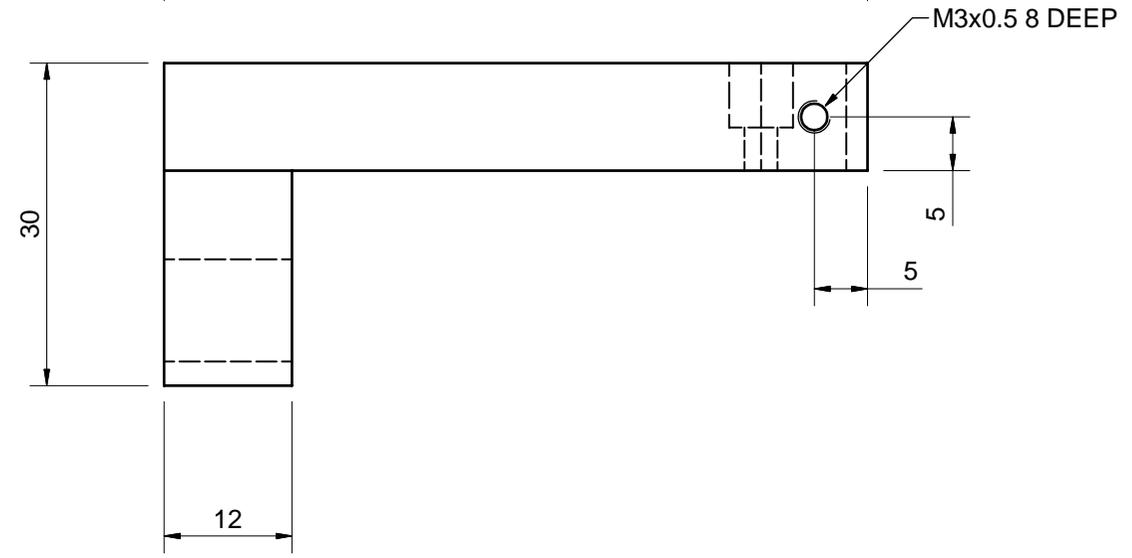
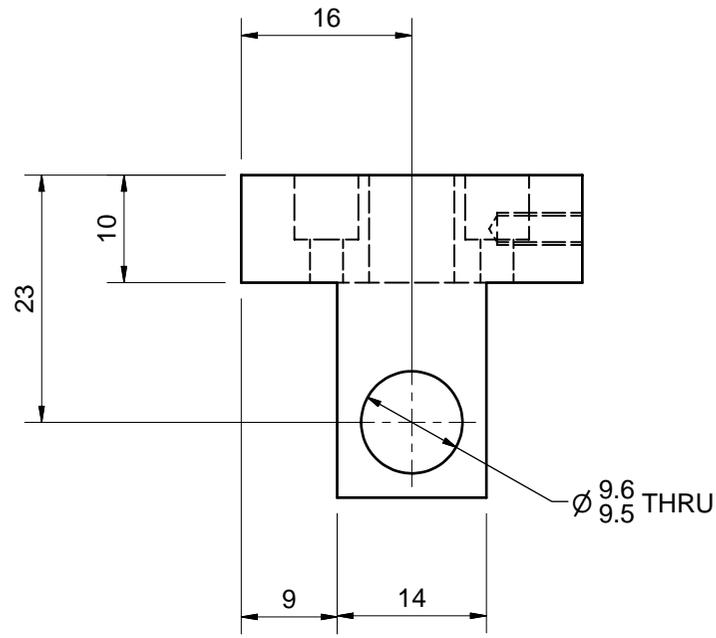
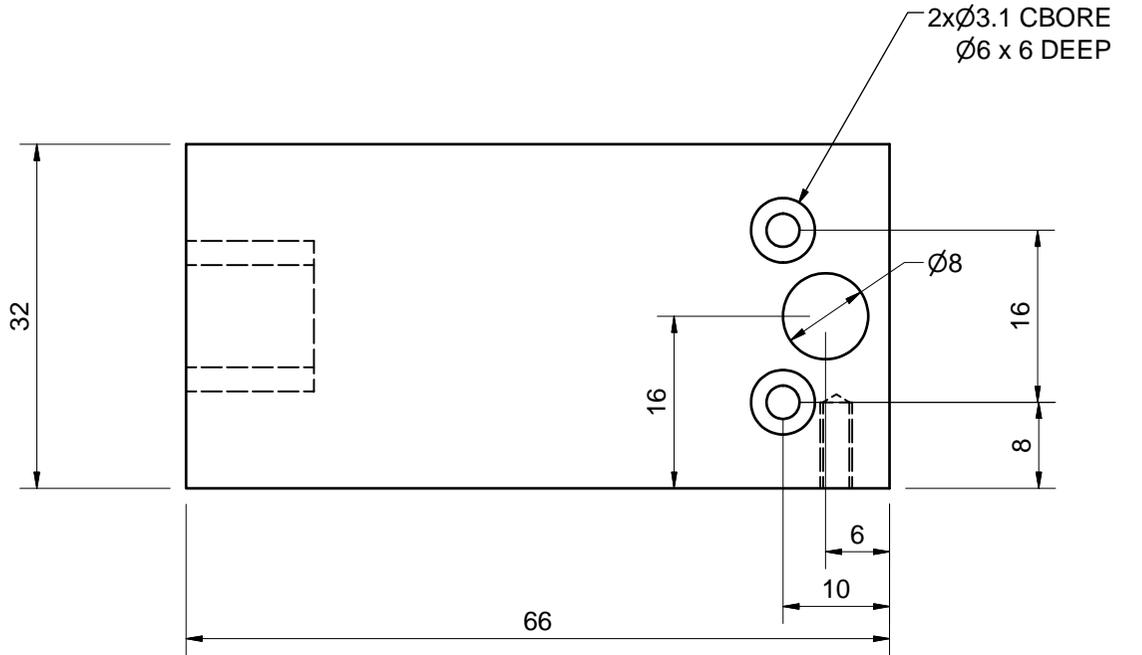
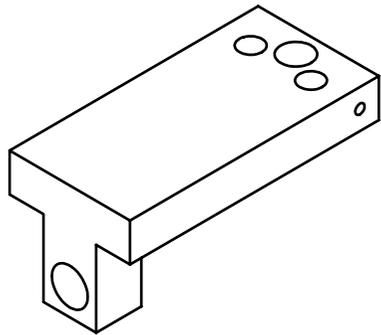
Third Angle

<small>UNLESS OTHERWISE STATED</small> All dimensions in mm General Tol: ± 0.1 Angular Tol: ± 0.25 Surface Finish (microns): 3.2 REMOVE ALL SHARP EDGES <small>This document remains the property of the Isaac Newton Group of Telescopes and may not be copied, reproduced or displayed in whole or part without the express consent of the Isaac Newton Group of Telescopes</small>	Material	Drawn by	Date	Revision	<h2 style="text-align: center;">LGB Clamp</h2>		
	Aluminium alloy	jolley	24/08/2005	2			
	BS1470 6082 T6	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400			Part Number	Sheet	
Finish	Black anodise				GLAS-7-1-005 r2	A3	1 / 1



Third Angle

<p>UNLESS OTHERWISE STATED All dimensions in mm General Tol: ± 0.1 Angular Tol: ± 0.25 Surface Finish (microns): 3.2 REMOVE ALL SHARP EDGES <small>This document remains the property of the Isaac Newton Group of Telescopes and may not be copied, reproduced or displayed in whole or part without the express consent of the Isaac Newton Group of Telescopes</small></p>	Material	Drawn by	Date	Revision	<h2 style="text-align: center;">Gimbol Bridge</h2>		
	Aluminium alloy	jolley	24/08/2005	2			
	BS1470 6082 T6	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400			Part Number	Sheet	
Finish	Black anodise				GLAS-7-1-007 r2	A3	1 / 1



(2:1)



<small>UNLESS OTHERWISE STATED</small> All dimensions in mm General Tol: ± 0.1 Angular Tol: ± 0.25 Surface Finish (microns): 3.2 REMOVE ALL SHARP EDGES <small>This document remains the property of the Isaac Newton Group of Telescopes and may not be copied, reproduced or displayed in whole or part without the express consent of the Isaac Newton Group of Telescopes</small>	Material	Drawn by	Date	Revision	LGB Altitude Clamp		
	Aluminium alloy	jolley	24/08/2005	2			
	BS1470 6082 T6	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400			Part Number	GLAS-7-1-008 r2	A3
Finish	Black anodise						