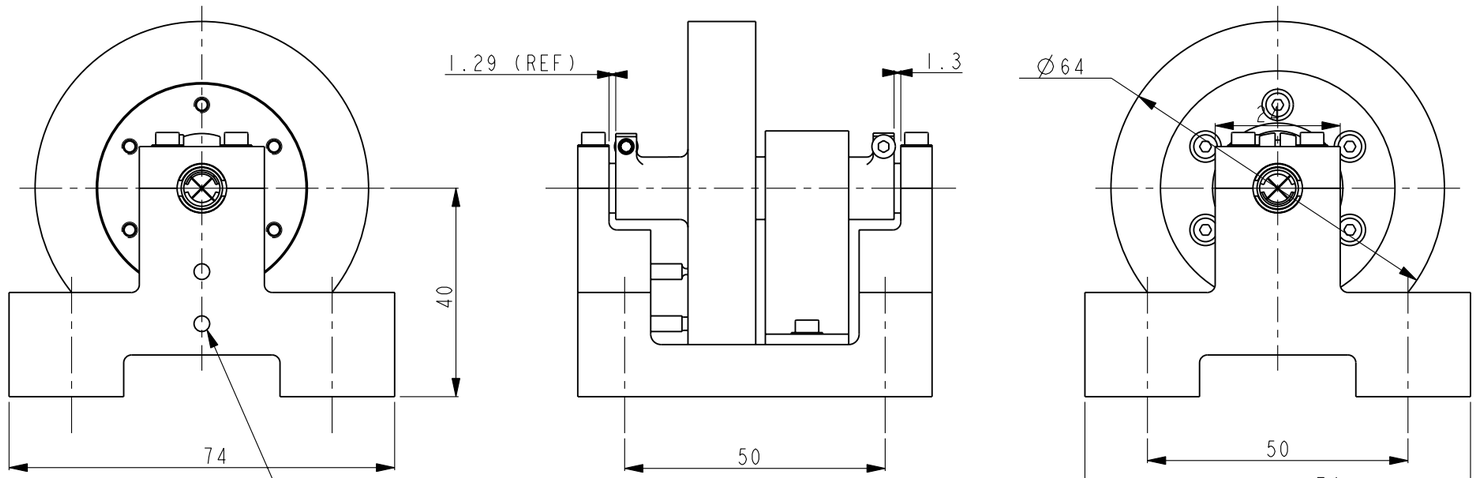
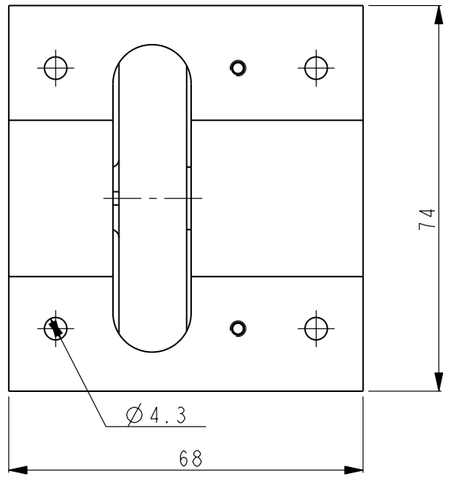
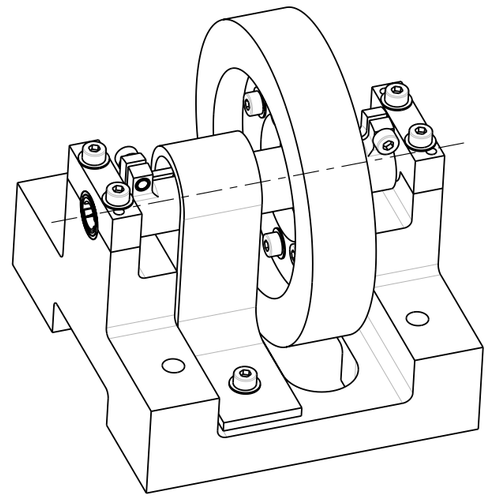






3D VIEW FOR INFO

SCALE 1.000

THIRD ANGLE PROJECTION
DIMENSIONS IN MM

UK Astronomy Technology Centre
Royal Observatory
Blackford Hill
Edinburgh
EH9 3HJ

Material: SEE NOTES Finish:	CTD: -	Drawn: IP Date: 22.JAN.02 Mod'd: Date:

Unless otherwise stated

Tolerances: -
Linear : ±0.1
Angular : ±0.5°

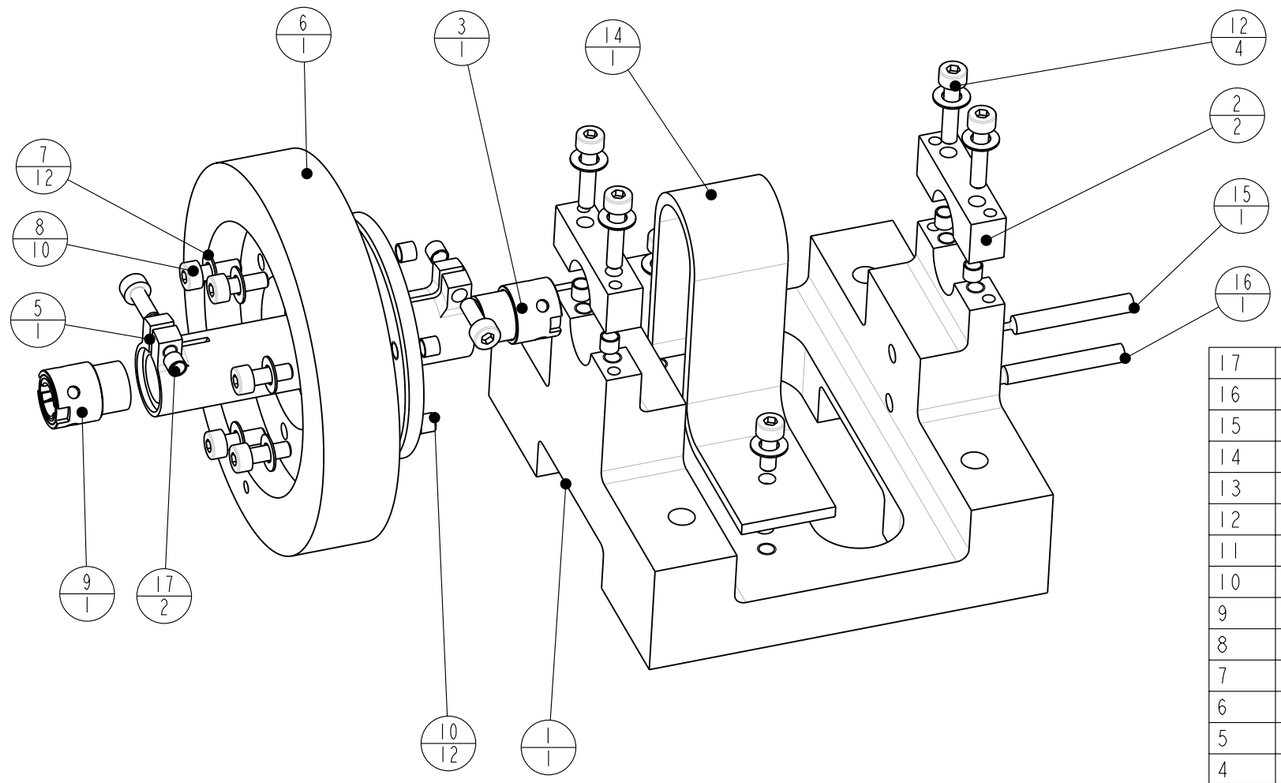
Remove all sharp edges

Last mod: 22.JAN.02

Title: BSM FLEX PIVOT CRYOGENIC UP-SCREENING RIG, ASSY

Size	Dwg No:	Rev
A3	SPIRE-BSM-010-001	1

Scale: MODEL: SPIRE-BSM-010-001 Sheet 1 OF 3



SCALE 1.200

NOTES:
1. FOR JIGGLE TEST RIG AS SHOWN, OMIT ITEM 15

2. FOR CHOP TEST RIG, OMIT ITEMS 6, 7, 8, 16

ITEM	DESCRIPTION	QTY	FILENAME	REV
17	M2.5 STANDARD HELICOIL INSERT	2	NOMINAL-STANDARD-INSERT	1
16	LIMIT PIN - JIGGLE	1	SPIRE-BSM-010-001-005	1
15	CHOP LIMIT PIN	1	SPIRE-BSM-010-001-004	1
14	cryo-upscreen retention strap	1	SPIRE-BSM-010-001-003	1
13	CAP HD SCREW SS M2.5x7mm	4	CAP-HD-SCREW-SS-M2-5X7	1
12	CAP HD SCREW SS M2x12	4	CAP-HD-SCREW-SS-M2-5X12	1
11	DISC SPRING SS 3.2mm ID	6	DISC-SPRING-ID-3_2	1
10	M2.5 HELICOIL LOCKING INSERT	12	NOMINAL-INSERT	1
9	Shielded flexure assy (jiggle top)	1	SPIRE-BSM-020-008	2
8	CAP HD SCREW SS M2.5x7mm	6	CAP-HD-SCREW-SS-M2-5X7	1
7	DISC SPRING SS 3.2mm ID	6	DISC-SPRING-ID-3_2	1
6	cryo upscreen mass ring	1	SPIRE-BSM-010-002-002	1
5	cryo upscreen dummy load - chop	1	SPIRE-BSM-010-002-001	1
4	Cryo Upscreen test rig Assembly	1	SPIRE-BSM-010-002	1
3	Shielded flexure assy (jiggle bot)	1	SPIRE-BSM-020-012	2
2	cryo upscreen cap	2	SPIRE-BSM-010-001-002	1
1	cryo upscreen base	1	SPIRE-BSM-010-001-001	1

THIRD ANGLE PROJECTION
DIMENSIONS IN MM

UK Astronomy Technology Centre
Royal Observatory
Blackford Hill
Edinburgh
EH9 3HJ

Material: SEE NOTES
Finish:

CTD: -

Drawn: IP Date: 22.JAN.02
Mod'd: Date:

Unless otherwise stated

Tolerances: -
Linear : ±0.1
Angular : ±0.5°

Remove all sharp edges

Last mod: 22.JAN.02

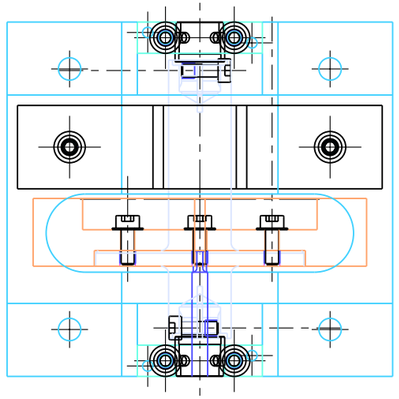
Title: BSM FLEX PIVOTS CRYOGENIC
UP-SCREENING RIG, ASSEMBLY

Size A3

Dwg No: SPIRE-BSM-010-001

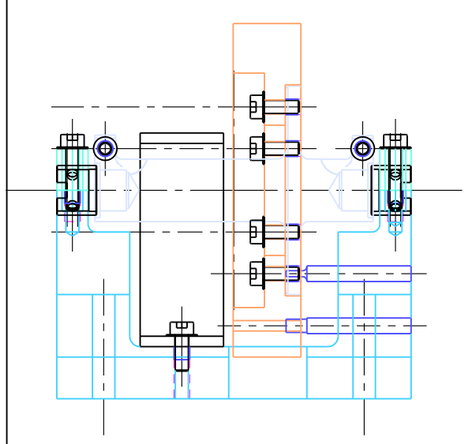
Rev 1

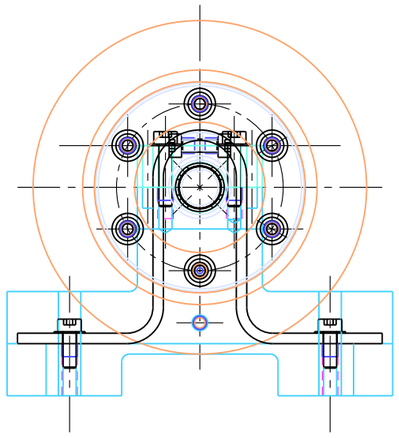
Scale: MODEL: SPIRE-BSM-010-001

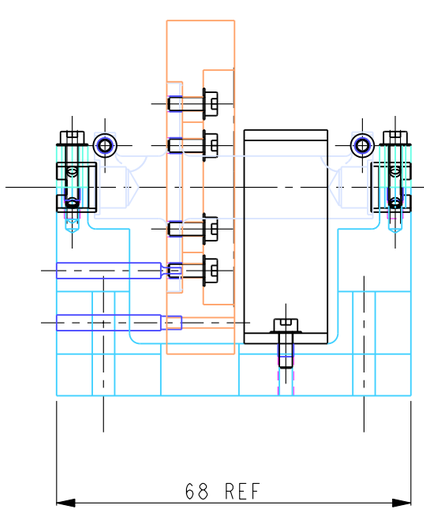


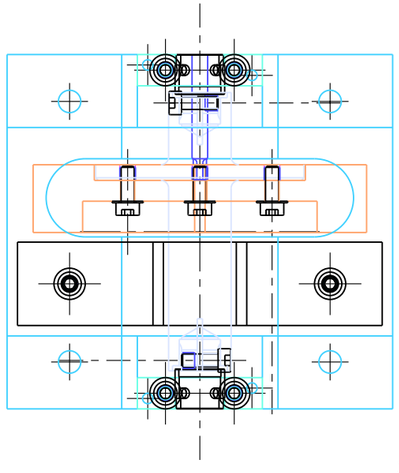
NOTES:

1. FLEX PIVOTS OMITTED FOR CLARITY
2. FLEX PIVOT SLEEVES AND ASSY TO PIVOTS WILL BE PER LATEST DRG AT TIME OF MANUFACTURE
3. IF IN DOUBT - ASK!









SCALE 1.000

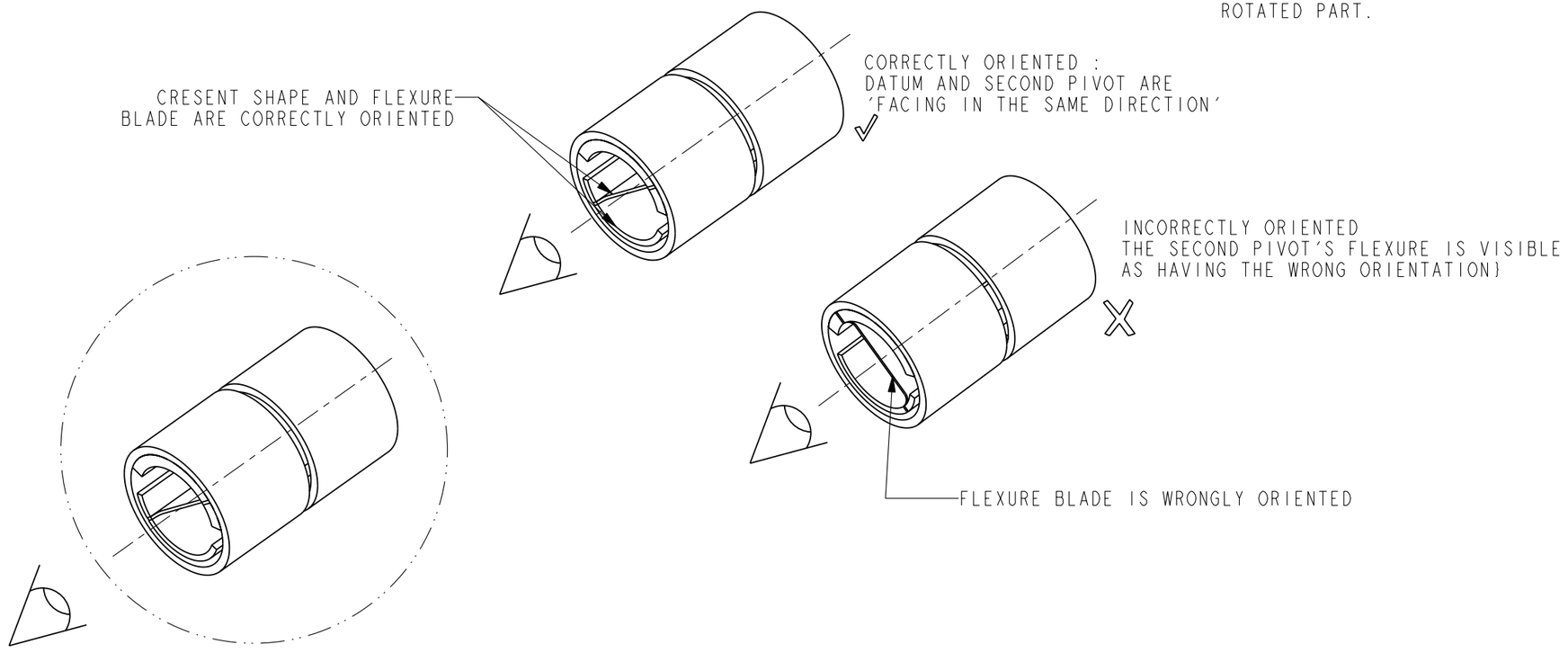
THIRD ANGLE PROJECTION DIMENSIONS IN MM		UK Astronomy Technology Centre	Royal Observatory Blackford Hill Edinburgh EH9 3HJ
Material: Finish:	CTD:-	Drawn: Date: Mod'd: Date:	
Unless otherwise stated Tolerances:- Linear : ±0.1 Angular : ±0.5° Remove all sharp edges	Last mod:		
	Title: WIREFRAME VIEWS FOR ACAD MANUF DRG		
Size A3	Dwg No: SPIRE-BSM-010-001		Rev
	Scale:	MODEL: SPIRE-BSM-010-001	Sheet 3 OF 3

NOTE:

THIS SKETCH RAISED AS BACKGROUND INFORMATION
TO DEMONSTRATE THE CORRECT ORIENTATION OF FLEX
PIVOTS WHEN INSTALLED IN PAIRS ON A COMMON AXIS.

BECAUSE THE FLEX PIVOTS DE-CENTRE WHEN THEY
ROTATE (DUE TO THE CROSSED NATURE OF THE FLEXURES)
THEN IT IS IMPORTANT TO INSTALL THEM
'FACING THE SAME WAY'.

FAILURE TO DO SO WOULD MEAN THAT THE TWO PIVOTS FIGHT
EACH OTHER DURING ROTATION OF THE AXIS. THIS LEADS TO
OVERSTRESS OF THE FLEXURES, AS WELL AS A YAW ERROR IN THE
ROTATED PART.



THIRD ANGLE PROJECTION DIMENSIONS IN MM		UK Astronomy Technology Centre Royal Observatory Blackford Hill Edinburgh EH9 3HJ
Material: N/A Finish: N/A	CTD: -	Drawn: IP Date: 11.JUL.01 Mod'd: Date:
Unless otherwise stated Tolerances: - Linear : ±0.1 Angular : ±0.5° Remove all sharp edges	Last mod:	Title: FLEX PIVOT ALIGNMENT SKETCH
Size A3	Dwg No: SPIRE-BSM-022-001	Rev
	Scale: MODEL: ATC-BRG-FLEX-001	Sheet 1 OF 1