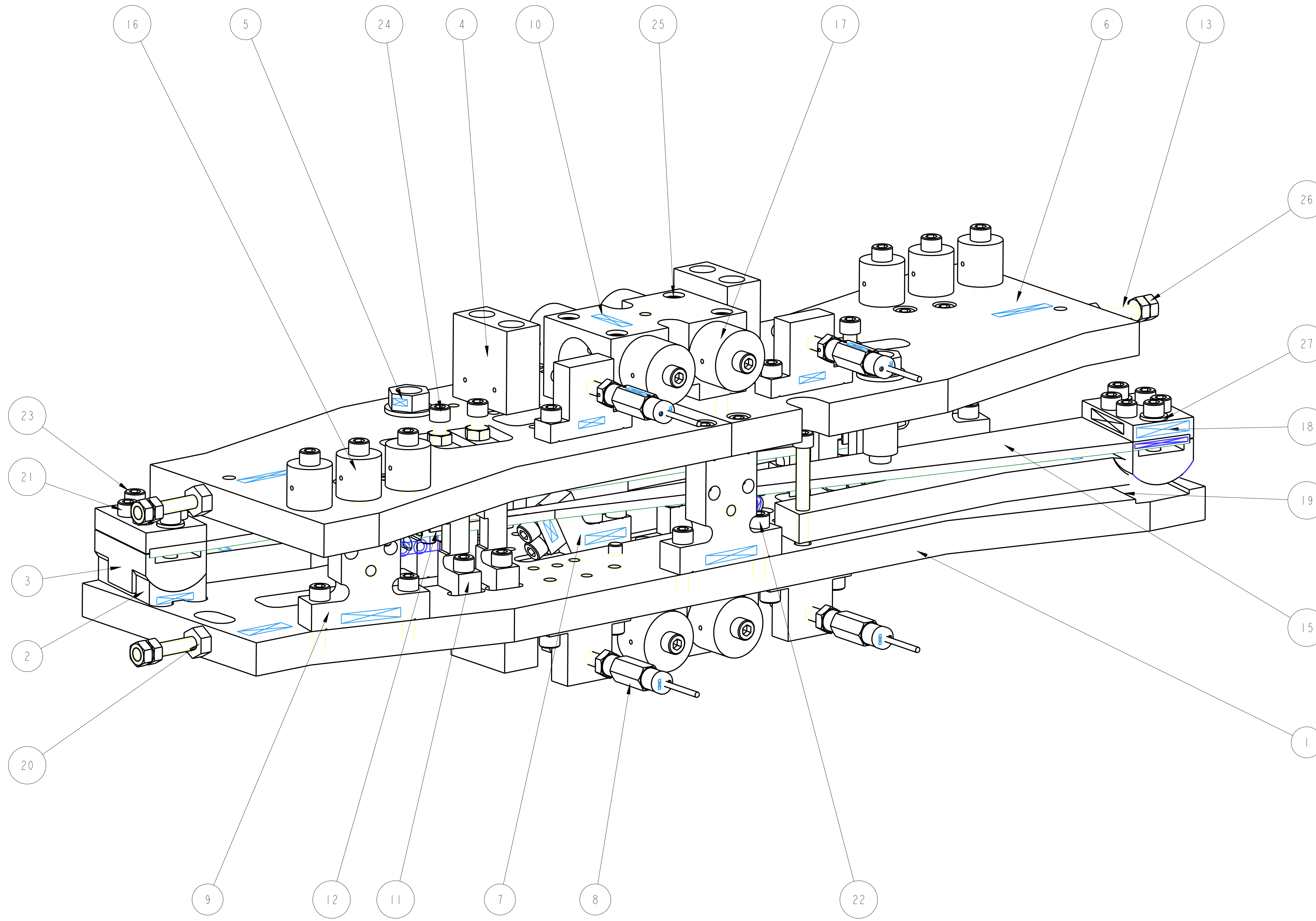


UI MASS - MAIN CHAIN



ITEM	QTY	SPARE	TOTAL	PART NUMBER	DESCRIPTION	MATERIALS
1	1			D060376	MASS BASE PLATE; . . .	ST STEEL; 304/316
2	2			D060377	BLADE TIP Z POSITION ADJ.; (BTM HALF PART 2)	AL ALLOY; 5083 OR 6061
3	2			D060378	BLADE TIP Z POSITION ADJ.; (BTM HALF)	ST STEEL; 304/316
4	4			D060379	OSEM AND FLAG COUNTERWEIGHT; UI MASS	ST STEEL; 304/316
5	2			D060381	UI MASS BLADE ECD; . . .	OFHC COPPER; . . .
6	2			D060382	UI MASS TOP PLATE; . . .	ST STEEL; 304/316
7	2			D060384	MIDDLE WIRE CLAMP; . . .	SEE ITEMS LIST; . . .
8	4			D060385	UI MASS FLAG MOUNT; . . .	SEE ITEMS LIST; . . .
9	4			D060397	TOP MASS SPACER; . . .	ST STEEL; 304
10	2			D060398	PITCH ADJUSTER & MASS; ADJUSTER TURRET	AL ALLOY; 5083
11	4			D060399	STOP BRIDGE; . . .	AL ALLOY; 5083
12	2			D060422	UI MASS WIRE CLAMP; . . .	AS DRW; SEE DRAWINGS
13	4			D070549	UIM E'QUAKE STOP; . . .	ST STEEL; 304/316
14	2			D0901344	10MM DIA X 10MM MAGNET; . . .	AS PAR SPEC; . . .
15	2			D060237_FLAT	BOTTOM BLADE SPRINGS; . . .	MARAGING STEEL 250; . . .
16	6			D060359-050.0	ADDITIONAL MASS; . . .	ST STEEL; 316
17	8			D060359-100.0	ADDITIONAL MASS; . . .	ST STEEL; 316
18	2			D060380-000	BLADE CLAMP; (TOP HALF)	ST STEEL; 304
19	22				1/4"-20 x 1.50 UNC THREAD INSERT; . . .	
20	4				1/4"-20 x 10 UNC THREAD INSERT; . . .	
21	8				1/4" 20 UNC X 1" CAP HEAD; . . .	
22	46				1/4" 20 UNC X 1" CAP HEAD SILVER PLATED; . . .	
23	4				1/4" 20 UNC X 2" CAP HEAD; . . .	
24	6				1/4" 20 UNC X 2" CAP HEAD, SPHERICAL TIP; . . .	
25	8				1/4" 20 UNC X 2" CAP HEAD SILVER PLATED; . . .	
26	12				1/4" 20 UNC NUT; . . .	
27	4				1/4" SPHERICAL WASHER; . . .	
28	1				.. .	
ITEM	QTY	SPARE	TOTAL	PART NUMBER	DESCRIPTION	MATERIALS

NOTES: (UNLESS OTHERWISE SPECIFIED)

- REMOVE ALL SHARP EDGES. R.02 MIN.
- DO NOT SCALE FROM DRAWING.
- ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE. SUCH AS CINCINNATI MILACRON'S CIMTECH 410 (STAINLESS STEEL).
- SCRIBE, ENGRAVE OR STAMP DRAWING PART NUMBER ON NOTED SURFACE OF PART AND A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST PART AND PROCEED CONSECUTIVELY. USE 07" HIGH CHARACTERS. EXAMPLE: D060100-001-A VIBRATOR TOOL MAY BE USED.

DIMENSIONS ARE IN mm (INCHES) TOLERANCES: X XX ± .13 ANGULAR ± .

MATERIAL: AS BOM

FINISH: AS DRW

SCALE: 1:1

DATE: 14/06/10

DRW: D060375

SYSTEM: aLIGO

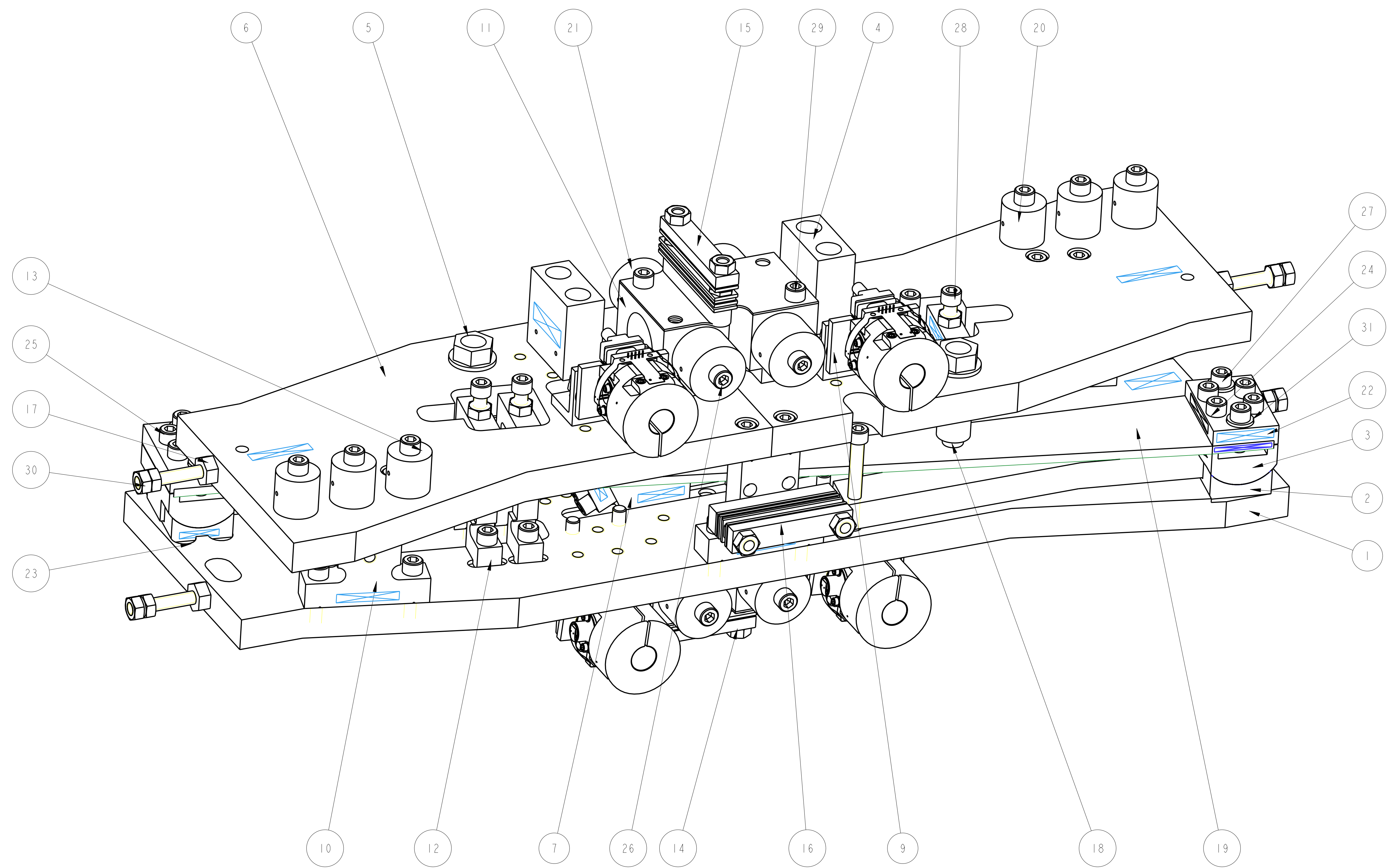
SUB-SYSTEM: SUS

NEXT ASSY: QUAD

PART NAME: UI MASS

SCALE: 1:1 PROJECTION: 1st ANGLE

UI MASS - REACTION CHAIN



ITEM	QTY	SPARE	TOTAL	PART NUMBER	DESCRIPTION	MATERIALS
1	1			D060376	MASS BASE PLATE; . . .	ST STEEL: 304/316
2	2			D060377	BLADE TIP Z POSITION ADJ.; (BTM HALF PART 2)	AL ALLOY: 5083 OR 6061
3	2			D060378	BLADE TIP Z POSITION ADJ.; (BTM HALF)	ST STEEL: 304/316
4	4			D060379	OSEM AND FLAG COUNTERWEIGHT; UI MASS	ST STEEL: 304/316
5	2			D060381	UI MASS BLADE ECD; . . .	OFHC COPPER:
6	2			D060382	UI MASS TOP PLATE; . . .	ST STEEL: 304/316
7	2			D060384	MIDDLE WIRE WIRE CLAMP; . . .	SEE ITEMS LIST:
8	1			D060385	UI MASS FLAG MOUNT; . . .	SEE ITEMS LIST:
9	4			D060387	UI MASS OSEM MOUNT; . . .	SEE ITEMS LIST:
10	4			D060397	TOP MASS SPACER; . . .	ST STEEL: 304
11	2			D060398	PITCH ADJUSTER & MASS; ADJUSTER TURRET	AL ALLOY: 5083
12	4			D060399	STOP BRIDGE; . . .	AL ALLOY: 5083
13	2			D060422	UI MASS WIRE CLAMP; . . .	AS DRW: SEE DRAWINGS
14	1			D070218	MASS WIRE CLAMP #1; . . .	AS DRW:
15	1			D070221	UIM MASS TOP WIRE CLAMP; . . .	AS DRW:
16	1			D070225	MASS WIRE CLAMP; . . .	AS DRW:
17	4			D070549	UIM E'QUAKE STOP; . . .	ST STEEL: 304/316
18	2			D0901344	10MM DIA X 10MM MAGNET; . . .	AS PAR SPEC:
19	2			D060237_FLAT	BOTTOM BLADE SPRINGS; . . .	MARAGING STEEL 250:
20	6			D060359-050-0	ADDITIONAL MASS; . . .	ST STEEL: 316
21	8			D060359-100-0	ADDITIONAL MASS; . . .	ST STEEL: 316
22	2			D060380-000	BLADE CLAMP; (TOP HALF)	ST STEEL: 304
23	22				1/4"-20 x 1.50 UNC THREAD INSERT; . . .	
24	4				1/4"-20 x 10 UNC THREAD INSERT; . . .	
25	8				1/4" 20 UNC X 1" CAP HEAD; . . .	
26	48				1/4" 20 UNC X 1" CAP HEAD SILVER PLATED; . . .	
27	4				1/4" 20 UNC X 2" CAP HEAD; . . .	
28	6				1/4" 20 UNC X 2" CAP HEAD, SPHERICAL TIP; . . .	
29	7				1/4" 20 UNC X 2" CAP HEAD SILVER PLATED; . . .	
30	12				1/4" 20 UNC NUT; . . .	
31	4				1/4" SPHERICAL WASHER; . . .	
32	1				. . .	

NOTES: (UNLESS OTHERWISE SPECIFIED)

- REMOVE ALL SHARP EDGES. R.02 MIN.
- DO NOT SCALE FROM DRAWING.
- ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE. SUCH AS CINCINNATI MILACRON'S CIMTECH 410 (STAINLESS STEEL).
- SCRIBE, ENGRAVE OR STAMP DRAWING PART NUMBER ON NOTED SURFACE OF PART AND A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST PART AND PROCEED CONSECUTIVELY. USE 07" HIGH CHARACTERS. EXAMPLE: D060100-001 - A VIBRATOR TOOL MAY BE USED.

DIMENSIONS ARE IN mm (INCHES) TOLERANCES:
 X XX ± .13
 ANGULAR ± .

MATERIAL: AS BOM
 FINISH: AS DRW
 √(um (1011) Ra:

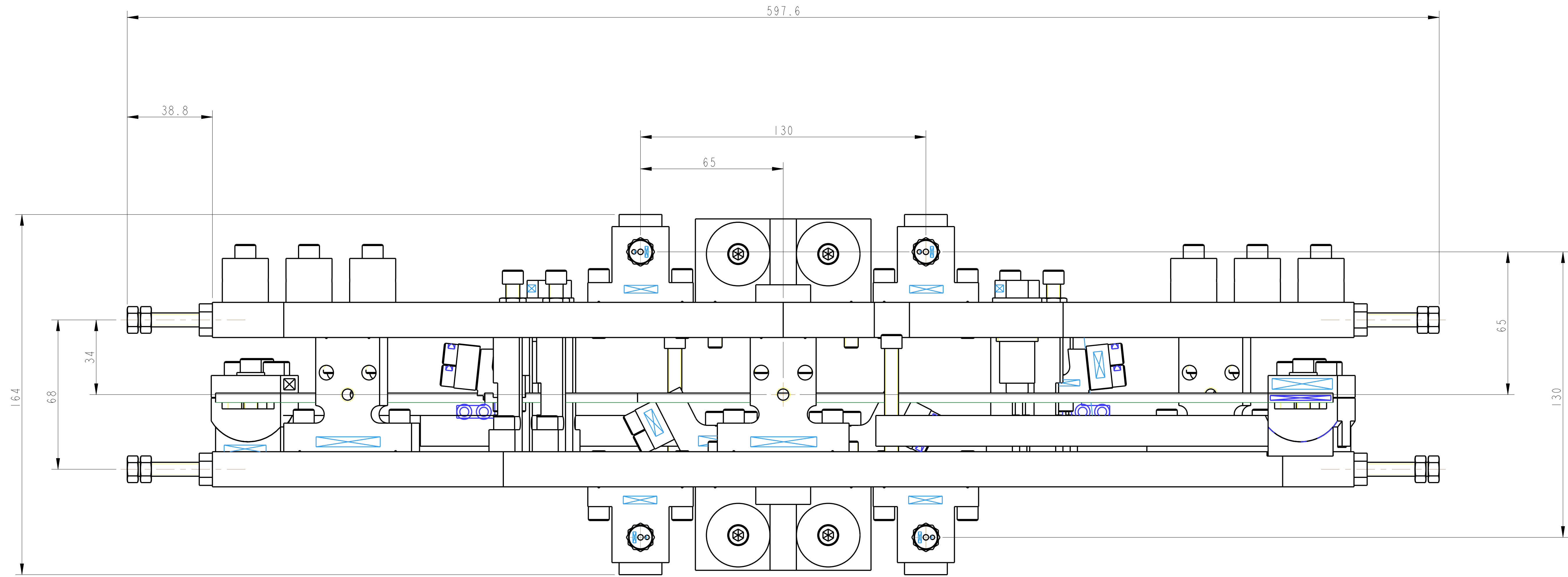
DRAWN: I WILMOT 14/06/10
 CHECKED: MB 15/MAR/10
 APPROVED: JOD 15/MAR/10

NAME: DATE: SIZE: DRG. NO.: D060375
 SCALE: 1:1 PROJECTION: L

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 GLASGOW UNIVERSITY GEO ROU GROUP
 RUTHERFORD APPLTON LABORATORIES

SYSTEM: aLIGO
 SUB-SYSTEM: SUS
 NEXT ASSY: QUAD
 PART NAME: UI MASS

BY: L



UI MASS WITH REF DIMS (MAIN CHAIN VERSION SHOWN HERE)

NOTES: (UNLESS OTHERWISE SPECIFIED)

- REMOVE ALL SHARP EDGES. R.02 MIN.
- DO NOT SCALE FROM DRAWING.
- ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SODIUM, CHLORINE AND SILICONE. SUCH AS CINCINNATI MILACRON'S CIMTECH 410 (STAINLESS STEEL).
- SCRIBE, ENGRAVE OR STAMP DRAWING PART NUMBER ON NOTED SURFACE OF PART AND A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST PART AND PROCEED CONSECUTIVELY. USE 07* HIGH CHARACTERS. EXAMPLE: 000100-001 - A VIBRATOR TOOL MAY BE USED.

DIMENSIONS ARE IN mm (INCHES)

TOLERANCES:
 X.XX ± .13
 ANGULAR ± .5

MATERIAL: AS BOM

FINISH: AS DRW
 $\sqrt{\mu m}$ (μIN) Ra:

NAME	DATE	SIZE
DRAWN	1/16/07	14/06/10
CHECKED	MB	15/MAR/10
APPROVED	JOD	15/MAR/10

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 MASSACHUSETTS INSTITUTE OF TECHNOLOGY
 RUTHERFORD APPLETON LABORATORIES

SYSTEM: aLIGO
 SUB-SYSTEM: SUS
 NEXT ASSY: QUAD
 PART NAME: UI MASS

DRG. NO.: D060375
 SCALE: 1:1 PROJECTION: SHEET 3 OF 3