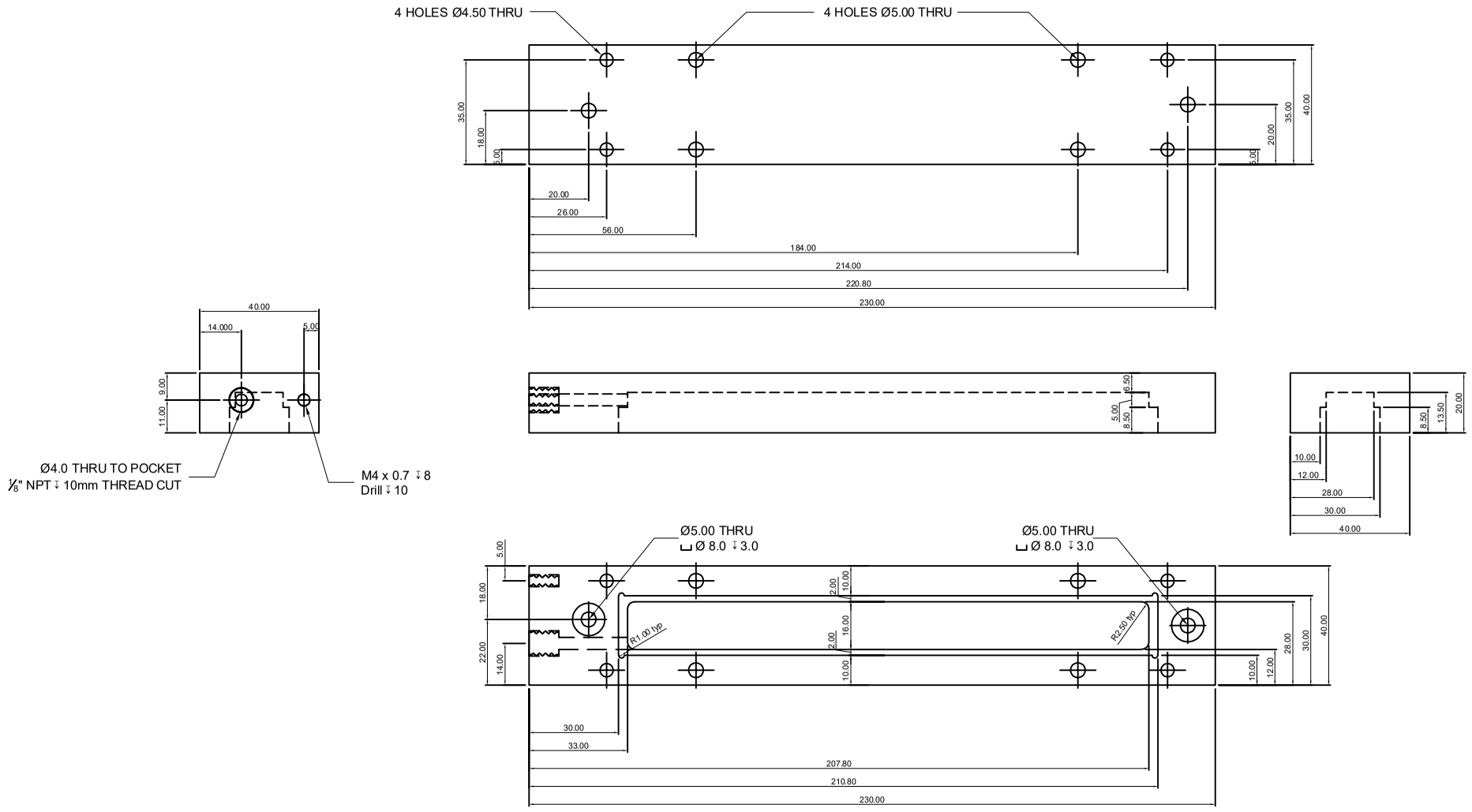
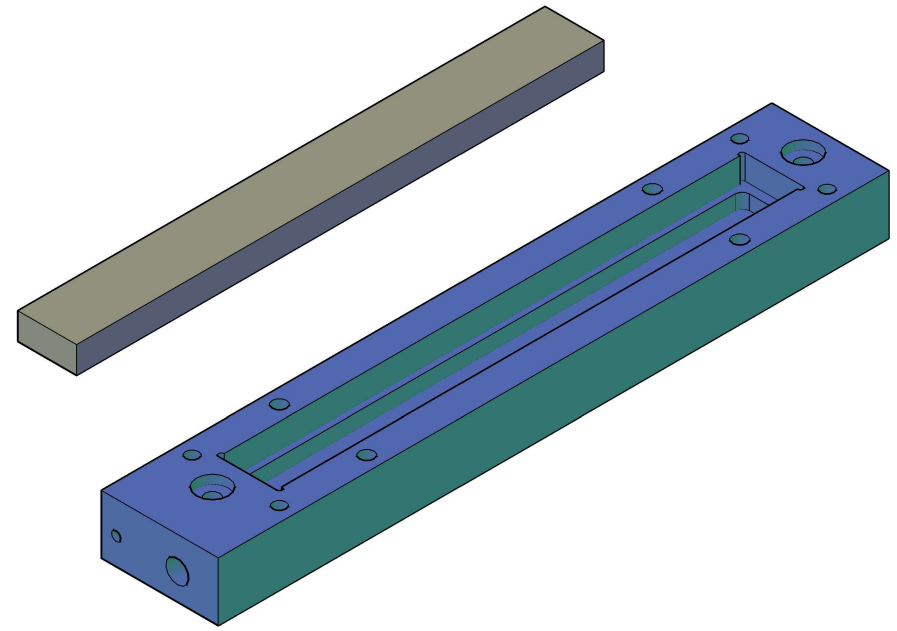
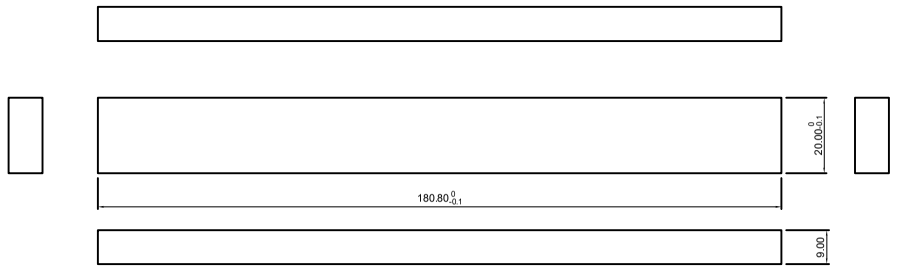




3D VIEW (not to scale)

METAPOR SINTERED ALUMINUM INSET
LAP TOP AND BOTTOM SURFACES BY 0.50mm EACH
TO EXPOSE PORES
SURFACE FLATNESS K or better?



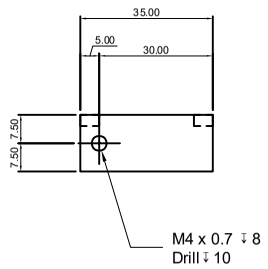
METAPOR INSET

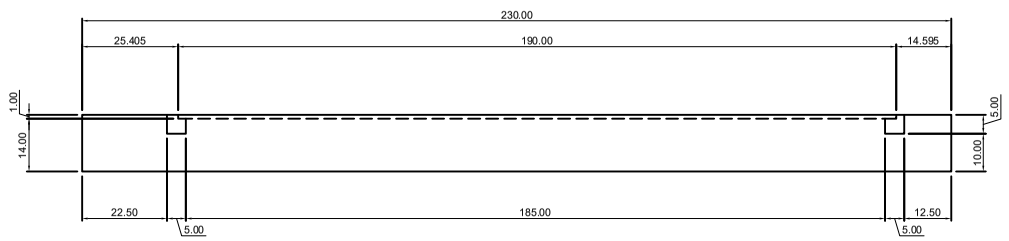
UNLESS OTHERWISE SPECIFIED:
MATERIAL: ALUM 6061-T6
ALL DIMENSIONS IN MILLIMETERS
FIT CLASSES FOLLOW ISO TOLERANCES
BREAK SHARP EDGES AND REMOVE BURRS

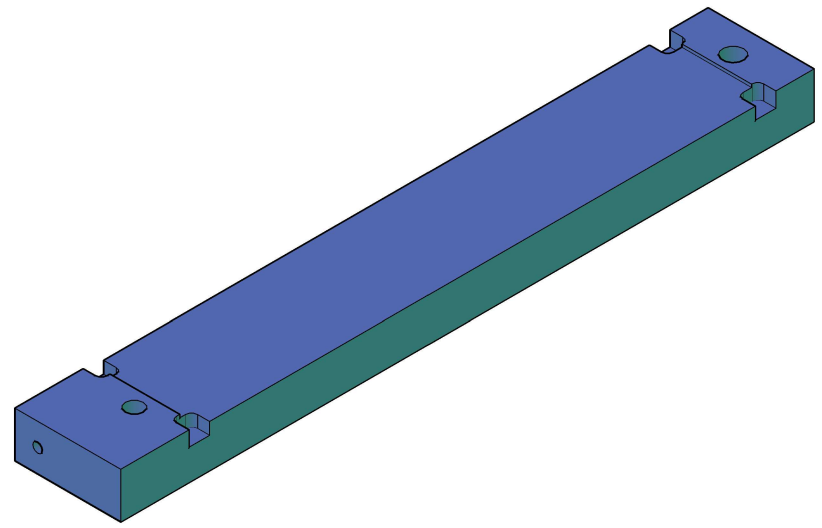
TOLERANCE
ISO 2768 (Medium) unless otherwise noted
MACHINE SURFACES: 0.01" or better
Flatness: K (0.4mm = 0.0157")
All holes: H7 (+10μm, -0)

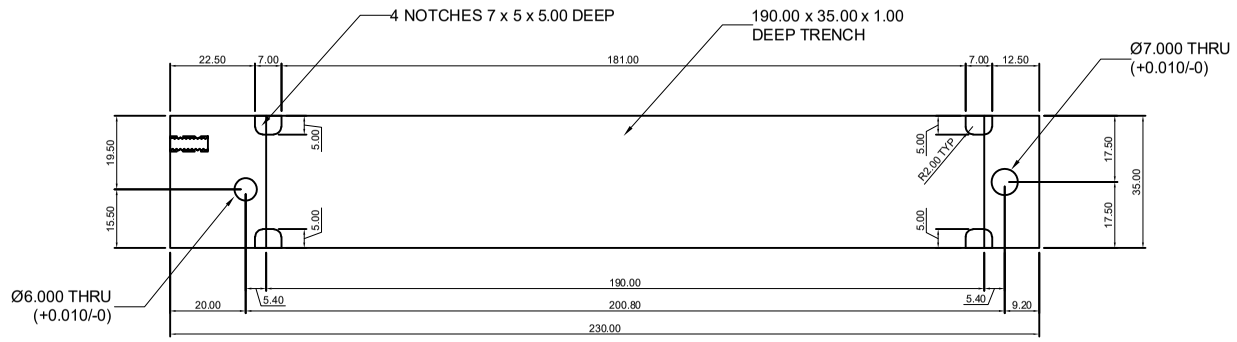
SANTA CRUZ INSTITUTE for PARTICLE PHYSICS

PROJECT: EPIC Prototype Assembly Tooling		REV: A
TITLE: Chip Pickup Tool and Metapor Inset		SCALE: 1:2
		SIZE: ANSI B
DWG NO: BIC-AT-2606-01	DRAWN BY: KA	SHEET: 01









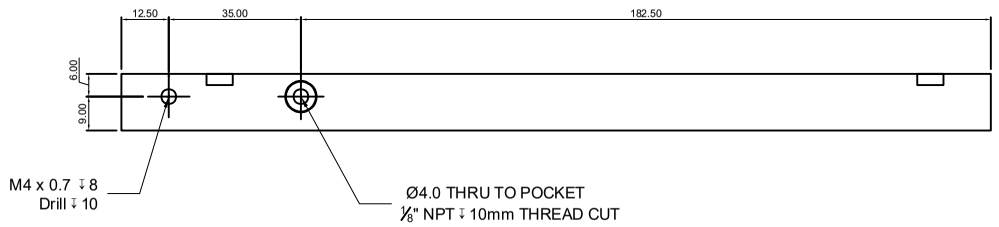
3D VIEW (not to scale)

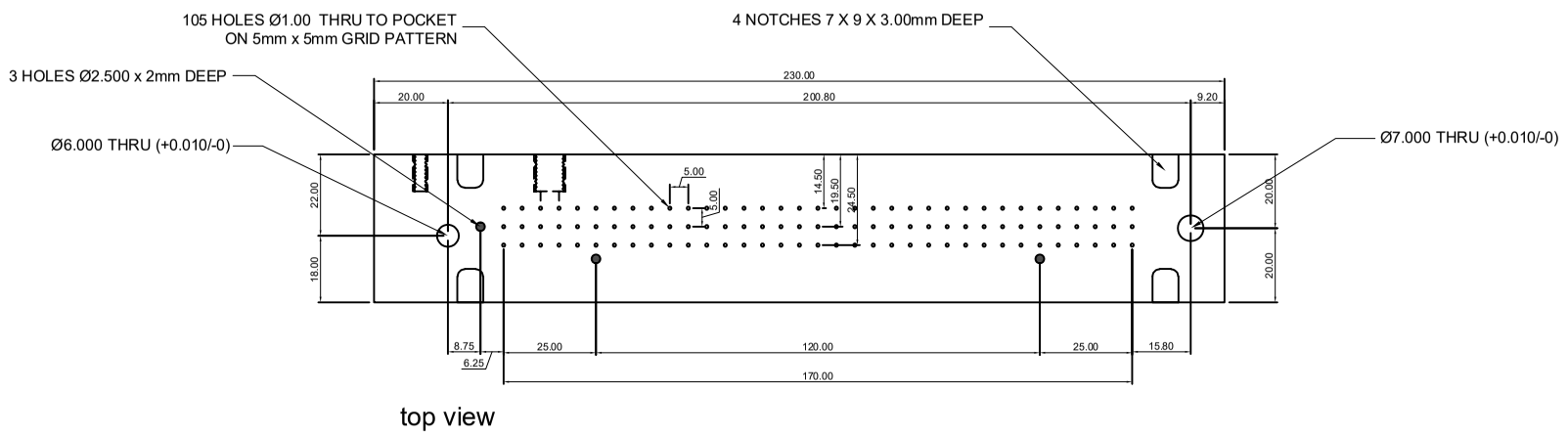
UNLESS OTHERWISE SPECIFIED:
MATERIAL: ALUM 6061-T6
ALL DIMENSIONS IN MILLIMETERS
FIT CLASSES FOLLOW ISO TOLERANCES
BREAK SHARP EDGES AND REMOVE BURRS

TOLERANCE
ISO 2768 (Medium) unless otherwise noted
MACHINE SURFACES: 0.01" or better
Flatness: K (0.4mm = 0.0157")
All holes: H7 (+10μm, -0)

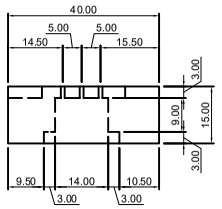
SANTA CRUZ INSTITUTE for PARTICLE PHYSICS

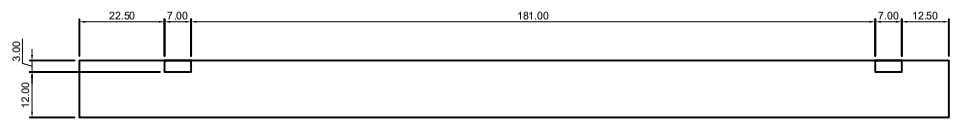
PROJECT: EPIC Prototype Assembly Tooling		REV: A
TITLE: v3 Chip Alignment Tool		SCALE: 1:2
		SIZE: ANSI B
DWG NO: BIC-AT-2606-01	DRAWN BY: KA	SHEET: 02

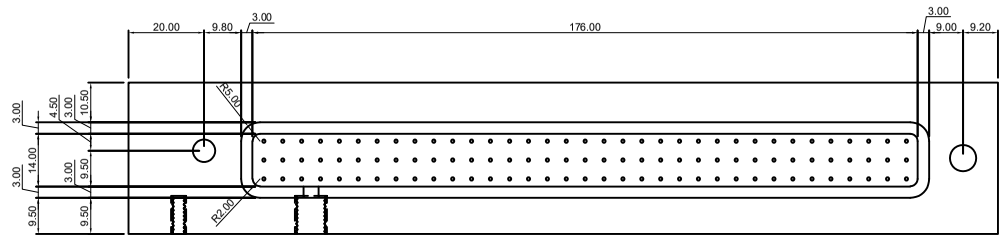




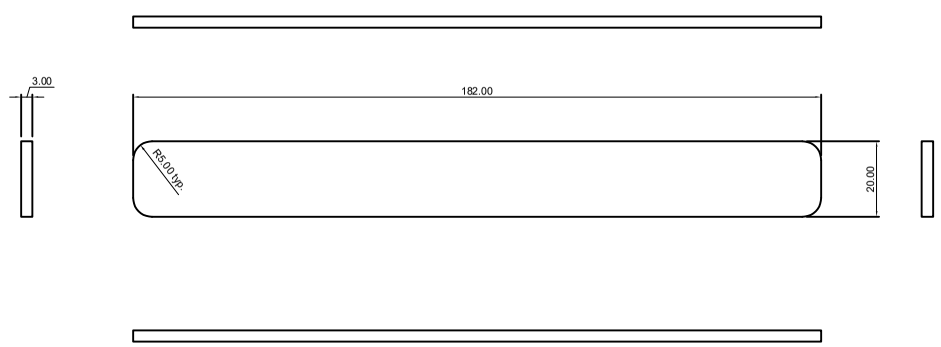
top view



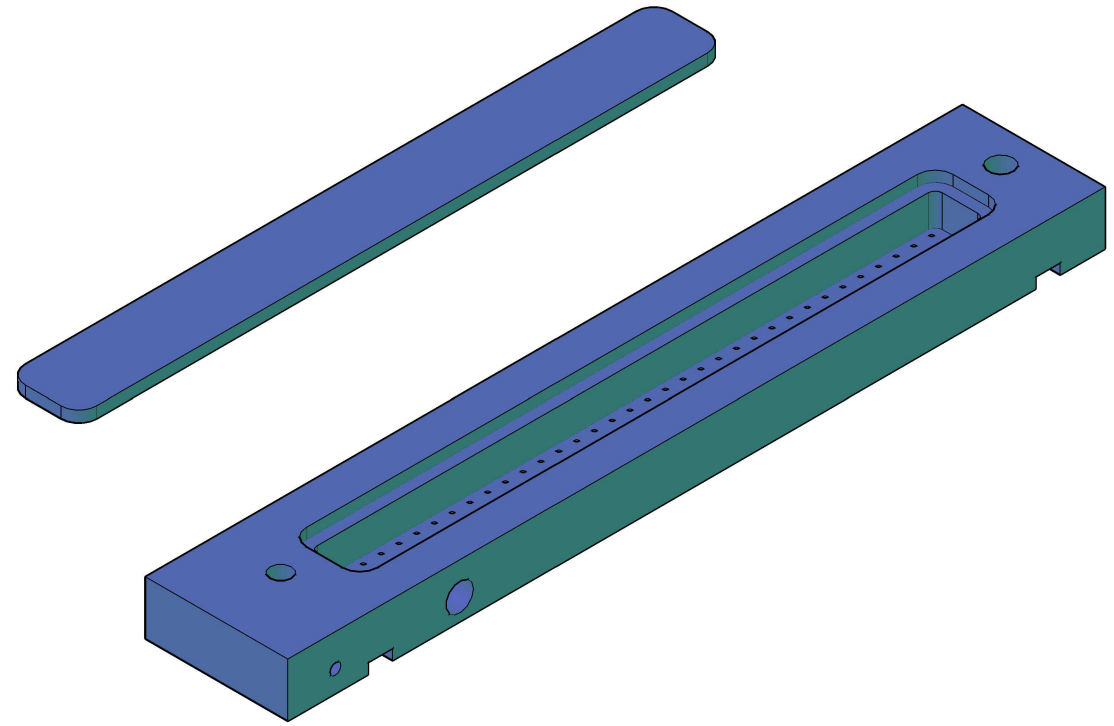




bottom view



Vacuum Pocket Cover



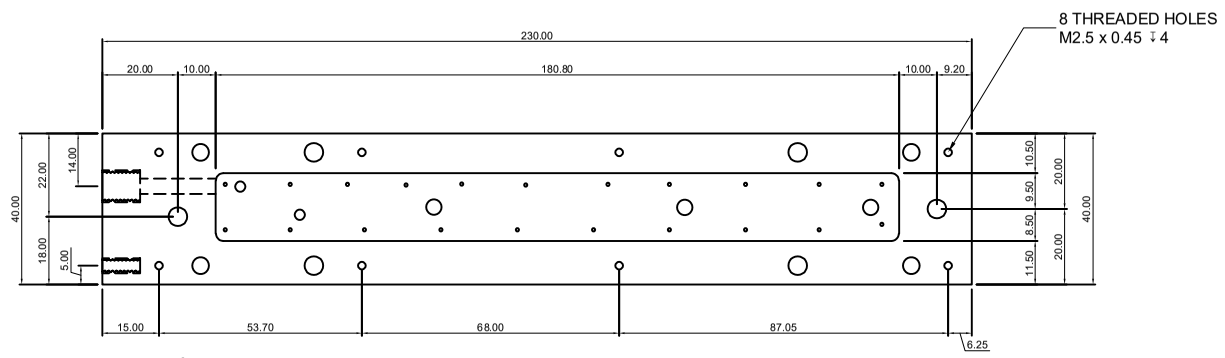
3D VIEW (not to scale)

UNLESS OTHERWISE SPECIFIED:
MATERIAL: ALUM 6061-T6
ALL DIMENSIONS IN MILLIMETERS
FIT CLASSES FOLLOW ISO TOLERANCES
BREAK SHARP EDGES AND REMOVE BURRS

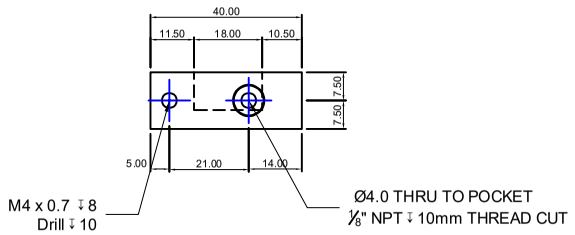
TOLERANCE
ISO 2768 (Medium) unless otherwise noted
MACHINE SURFACES: 0.01" or better
Flatness: K (0.4mm = 0.0157")
All holes: H7 (+10μm, -0)

SANTA CRUZ INSTITUTE for PARTICLE PHYSICS

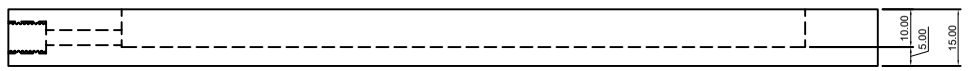
PROJECT: EPIC Prototype Assembly Tooling		REV: A
TITLE: Hybrid Alignment Tool and Cover		SCALE: 1:2
		SIZE: ANSI B
DWG NO: BIC-AT-2606-01	DRAWN BY: KA	SHEET: 03



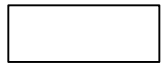
top view



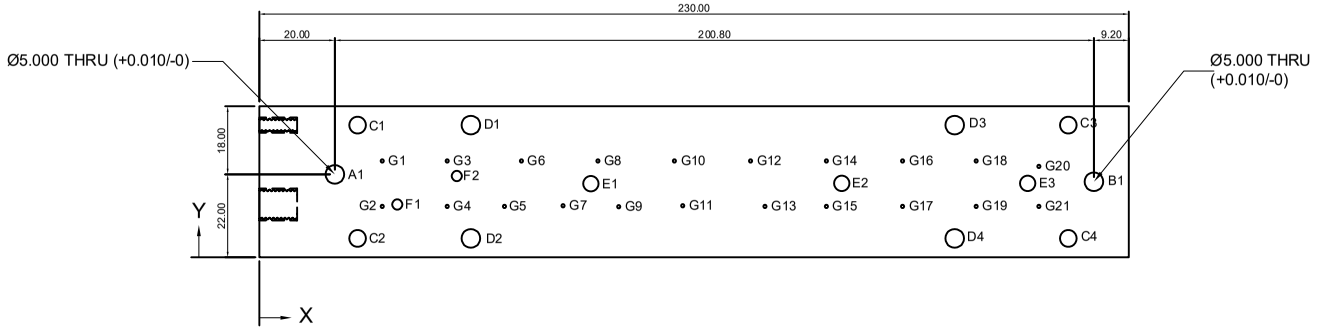
left side view



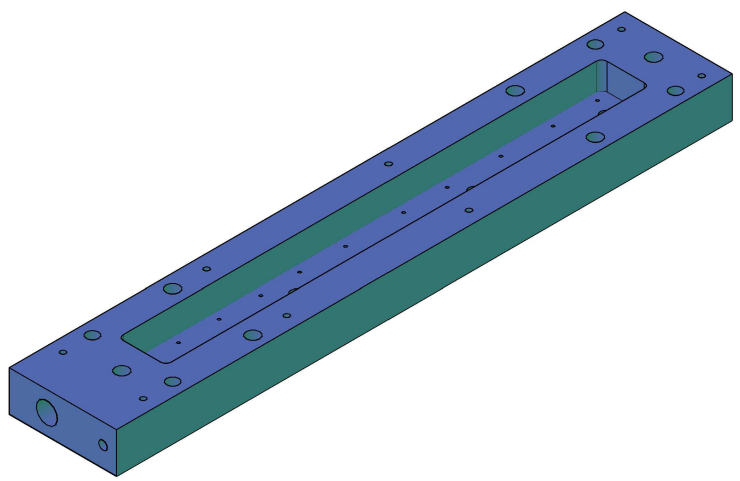
front view



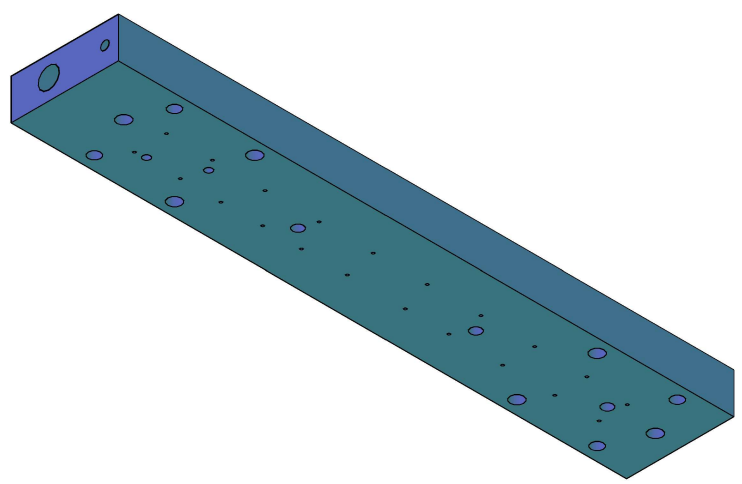
right side view



bottom view



3D VIEW (not to scale)



3D VIEW (not to scale)

HOLE TABLE

LABEL	DIA (mm)	X DIM	Y DIM
A1	5.000	20.00	22.00
B1	5.000	220.80	20.00
C1	4.500	26.00	35.00
C2	4.500	26.00	5.00
C3	4.500	214.00	35.00
C4	4.500	214.00	5.00
D1	5.000	56.00	35.00
D2	5.000	56.00	5.00
D3	5.000	184.00	35.00
D4	5.000	184.00	5.00
E1	4.064	87.70	19.50
E2	4.064	154.05	19.58
E3	4.064	203.25	19.58
F1	2.794	36.50	14.04
F2	2.794	52.24	21.54
G1	1.000	32.50	25.50
G2	1.000	32.50	13.50
G3	1.000	49.69	25.50
G4	1.000	49.69	13.50
G5	1.000	64.67	13.50
G6	1.000	69.37	25.50
G7	1.000	80.32	13.50
G8	1.000	89.61	25.50
G9	1.000	95.07	13.50
G10	1.000	109.85	25.50
G11	1.000	111.97	13.50
G12	1.000	129.95	25.50
G13	1.000	133.75	13.50
G14	1.000	150.05	25.50
G15	1.000	154.05	13.50
G16	1.000	170.15	25.50
G17	1.000	184.00	13.50
G18	1.000	189.66	25.50
G19	1.000	189.66	13.50
G20	1.000	206.26	25.50
G21	1.000	206.26	13.50

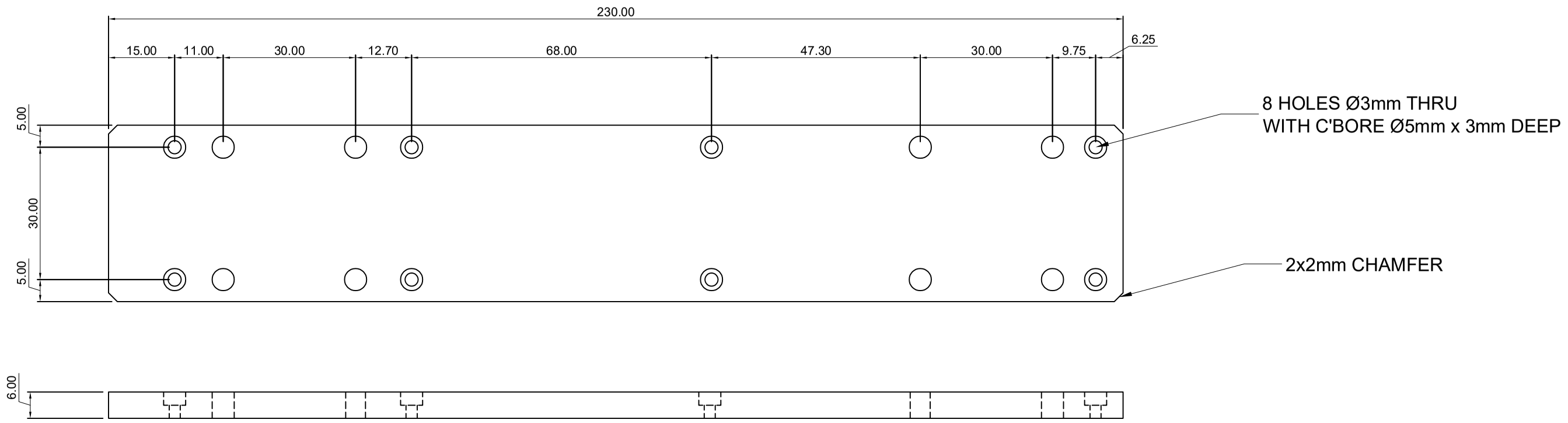
Note: All of the holes labeled on the bottom view are through holes. The 8 M2.5 holes shown in top view are only 4mm deep as noted.

UNLESS OTHERWISE SPECIFIED:
MATERIAL: ALUM 6061-T6
ALL DIMENSIONS IN MILLIMETERS
FIT CLASSES FOLLOW ISO TOLERANCES
BREAK SHARP EDGES AND REMOVE BURRS

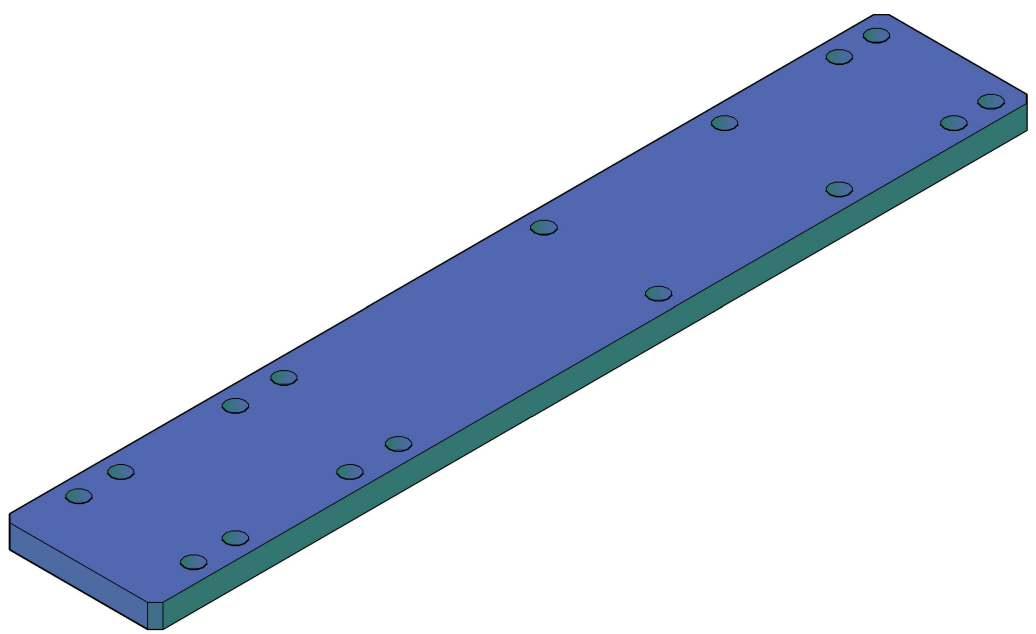
TOLERANCE
ISO 2768 (Medium) unless otherwise noted
MACHINE SURFACES: 0.01" or better
Flatness: K (0.4mm = 0.0157")
All holes: H7 (+10μm, -0)

SANTA CRUZ INSTITUTE for PARTICLE PHYSICS

PROJECT: EPIC Prototype Assembly Tooling		REV: A
TITLE: Hybrid Pickup Tool		SCALE: 1:2
		SIZE: ANSI B
DWG NO: BIC-AT-2606-01	DRAWN BY: KA	SHEET: 04



Vacuum Pocket Cover



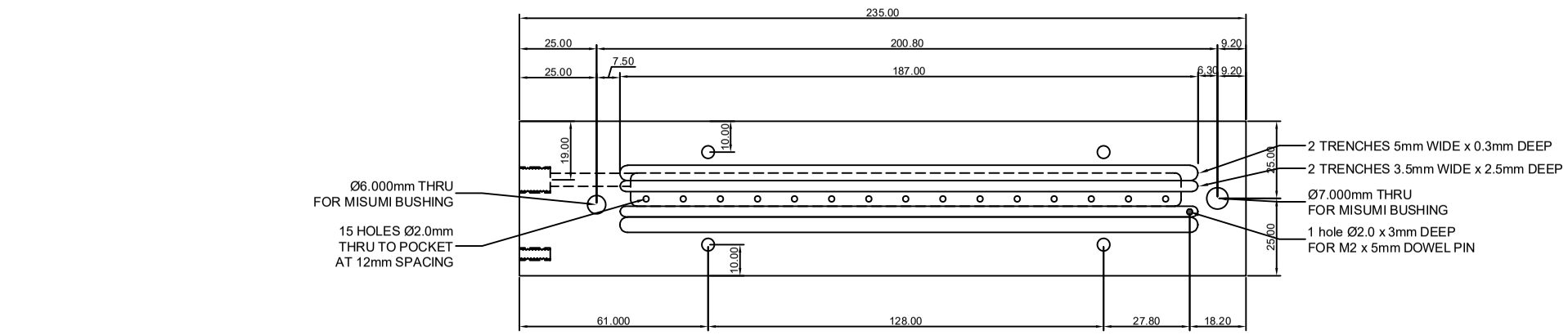
3D VIEW (not to scale)

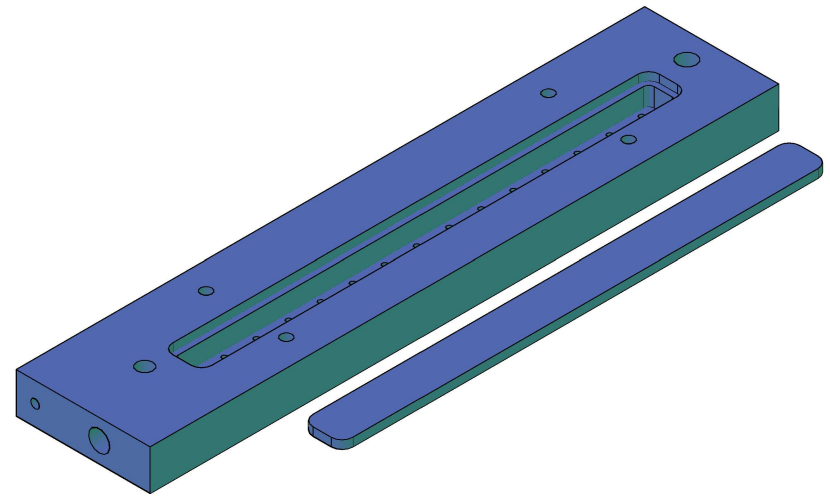
UNLESS OTHERWISE SPECIFIED:
MATERIAL: ALUM 6061-T6
ALL DIMENSIONS IN MILLIMETERS
FIT CLASSES FOLLOW ISO TOLERANCES
BREAK SHARP EDGES AND REMOVE BURRS

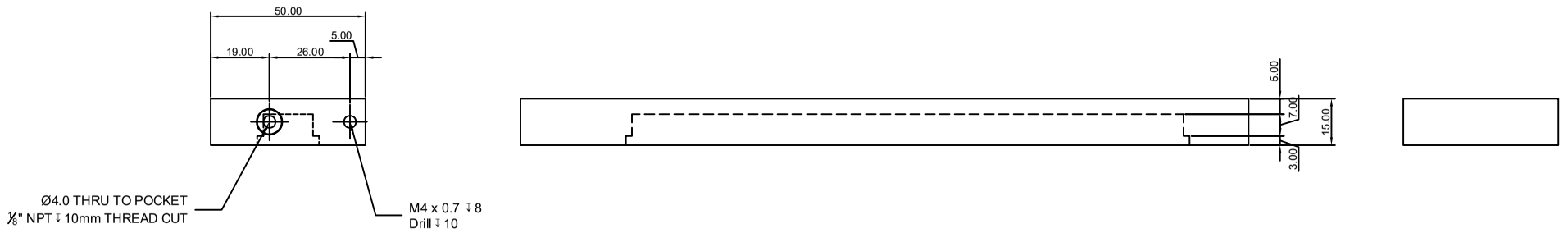
TOLERANCE
ISO 2768 (Medium) unless otherwise noted
MACHINE SURFACES: 0.01" or better
Flatness: K (0.4mm = 0.0157")
All holes: H7 (+10μm, -0)

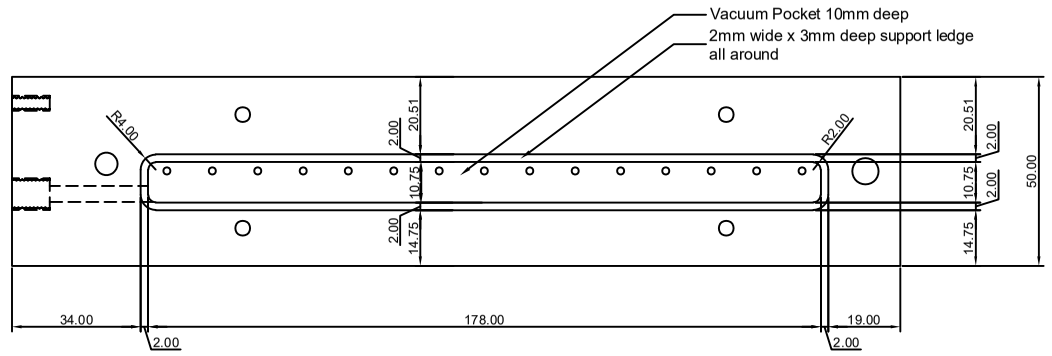
SANTA CRUZ INSTITUTE for PARTICLE PHYSICS

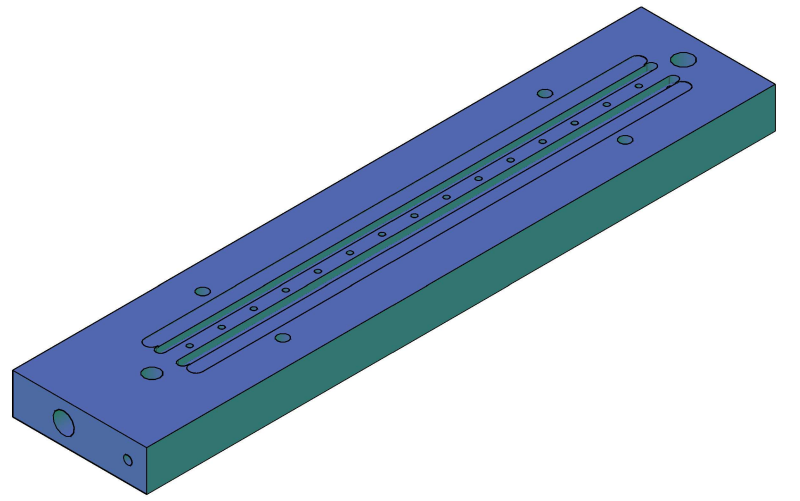
PROJECT: EPIC Prototype Assembly Tooling		REV: A
TITLE: Hybrid Pickup Tool Vacuum Cover		SCALE: 1:1
		SIZE: ANSI B
DWG NO: BIC-AT-2606-01	DRAWN BY: KA	SHEET: 05



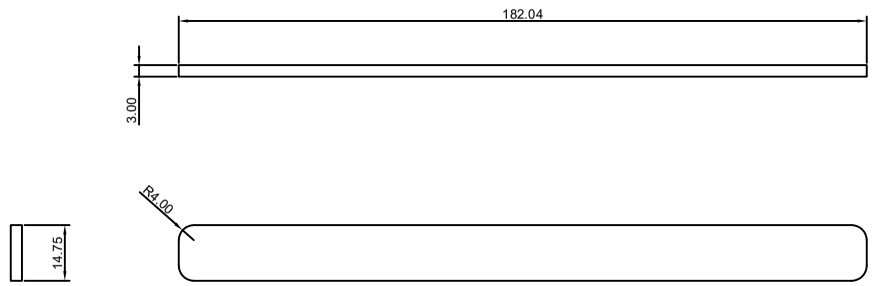








3D VIEW (not to scale)



Vacuum Pocket Cover

UNLESS OTHERWISE SPECIFIED:
MATERIAL: ALUM 6061-T6
ALL DIMENSIONS IN MILLIMETERS
FIT CLASSES FOLLOW ISO TOLERANCES
BREAK SHARP EDGES AND REMOVE BURRS

TOLERANCE
ISO 2768 (Medium) unless otherwise noted
MACHINE SURFACES: 0.01" or better
Flatness: K (0.4mm = 0.0157")
All holes: H7 (+10μm, -0)

SANTA CRUZ INSTITUTE for PARTICLE PHYSICS

PROJECT: EPIC Prototype Assembly Tooling		REV: A
TITLE: Gluing Plate and Cover		SCALE: 1:2
		SIZE: ANSI B
DWG NO: BIC-AT-2606-01	DRAWN BY: KA	SHEET: 06