

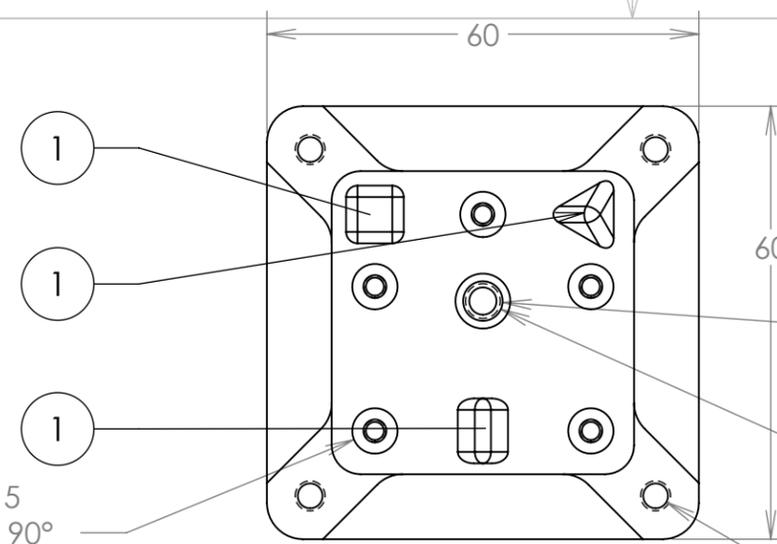
Overall size shown here. Part is to correspond to solid model.

The important feature to reference is the kinematic clamp features (1) with respect to the side walls indicated as (2), within 0.025mm of the solid model definition.

Machine locating nubs to align clamp plate with underbody.

5X  $\phi$  3.20  $\nabla$  5  
 $\sphericalangle$   $\phi$  6.30 X 90°  
 $\square$   $\phi$  6.30  $\nabla$  1.50

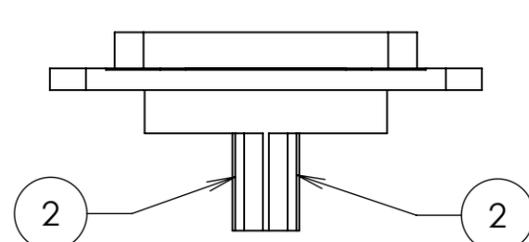
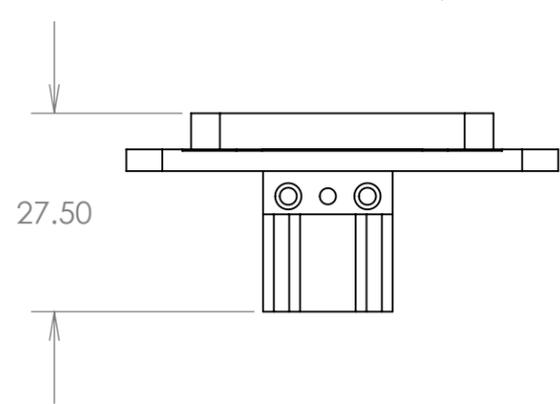
REVISIONS				
REV	DWG	CHK	DATE	DESCRIPTION
1	JHS	JHS	2011-06-10	Initial drawing.
2	JHS	JHS	2011-12-15	Separate into two materials, screwed together permanently
0004	JHS	JHS	2012-10-05	Reduced height of post by 1.5 mm. Made 4x corner holes into tapped 8-32. Corrected clamp plate center hole to be clear (only under body center hole is tapped).



CLAMP PLATE:  
 $\phi$  5.50 THRU

UNDERBODY:  
 $\phi$  3.80  $\nabla$  11  
 10-24 UNC  $\nabla$  9.65  
 $\sphericalangle$   $\phi$  7.62 X 90°, NEAR SIDE

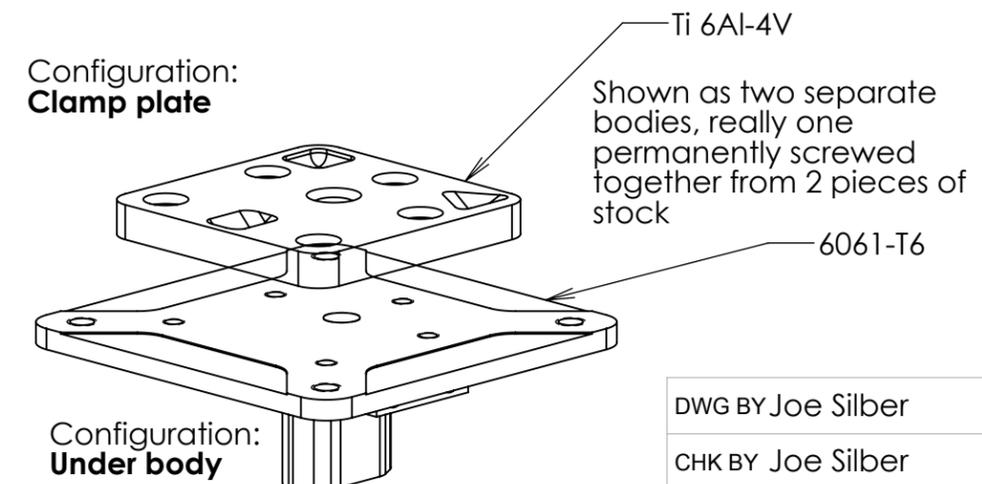
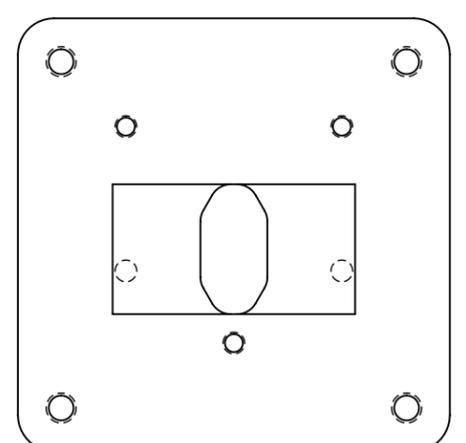
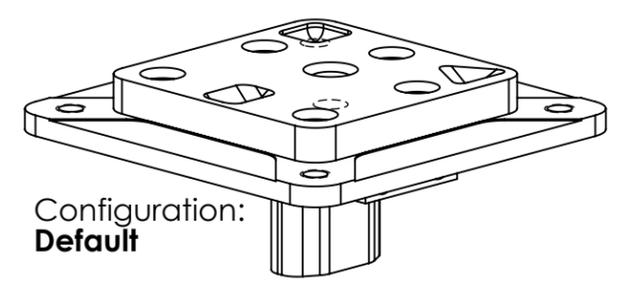
4X  $\phi$  3.45 THRU ALL  
 8-32 UNC THRU ALL



2X  $\phi$  2.38  $\nabla$  8  
 $\sphericalangle$   $\phi$  3.65 X 90°, NEAR SIDE

3/32" dowel pin presses into these holes

$\phi$  2.26  $\nabla$  8.18  
 4-40 UNC  $\nabla$  5



MATERIAL	Ti 6Al-4V (clamp plate) 6061-T6 (under body)	
SURFACE TREATMENT		
DIMENSIONS IN MM. UNLESS OTHERWISE SPECIFIED:		
TOLERANCES	X.X $\pm$ 0.5	FRAC. $\pm$ 1/64
	X.XX $\pm$ 0.1	ANGLES $\pm$ 1.00°
	X.XXX $\pm$ 0.05	FINISH $\sqrt[3.2]{\mu\text{m}}$

**ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY**  
 UNIVERSITY OF CALIFORNIA - BERKELEY

HFT		SHEET 1 OF 1	
Guide_bottom_v2		SCALE: 1:1	
SER NO.	PROJECT NO.	PROJECT NAME	CATEGORY CODE
			DWG NO.
			SIZE
			REV.
			B 0004

DWG BY Joe Silber	DATE 2011-06-10
CHK BY Joe Silber	DATE 2011-06-10
APR BY Joe Silber	DATE 2011-06-10

THREADS ARE CLASS 2  
 CHAMFER ENDS OF ALL SCREW THREADS 30°  
 CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS  
 BREAK EDGES .016 MAX. ON MACHINED WORK  
 REMOVE BURRS, WELD SPLATTER & LOOSE SCALE  
 IN ACCORDANCE WITH ASME Y14.5M & B46.1