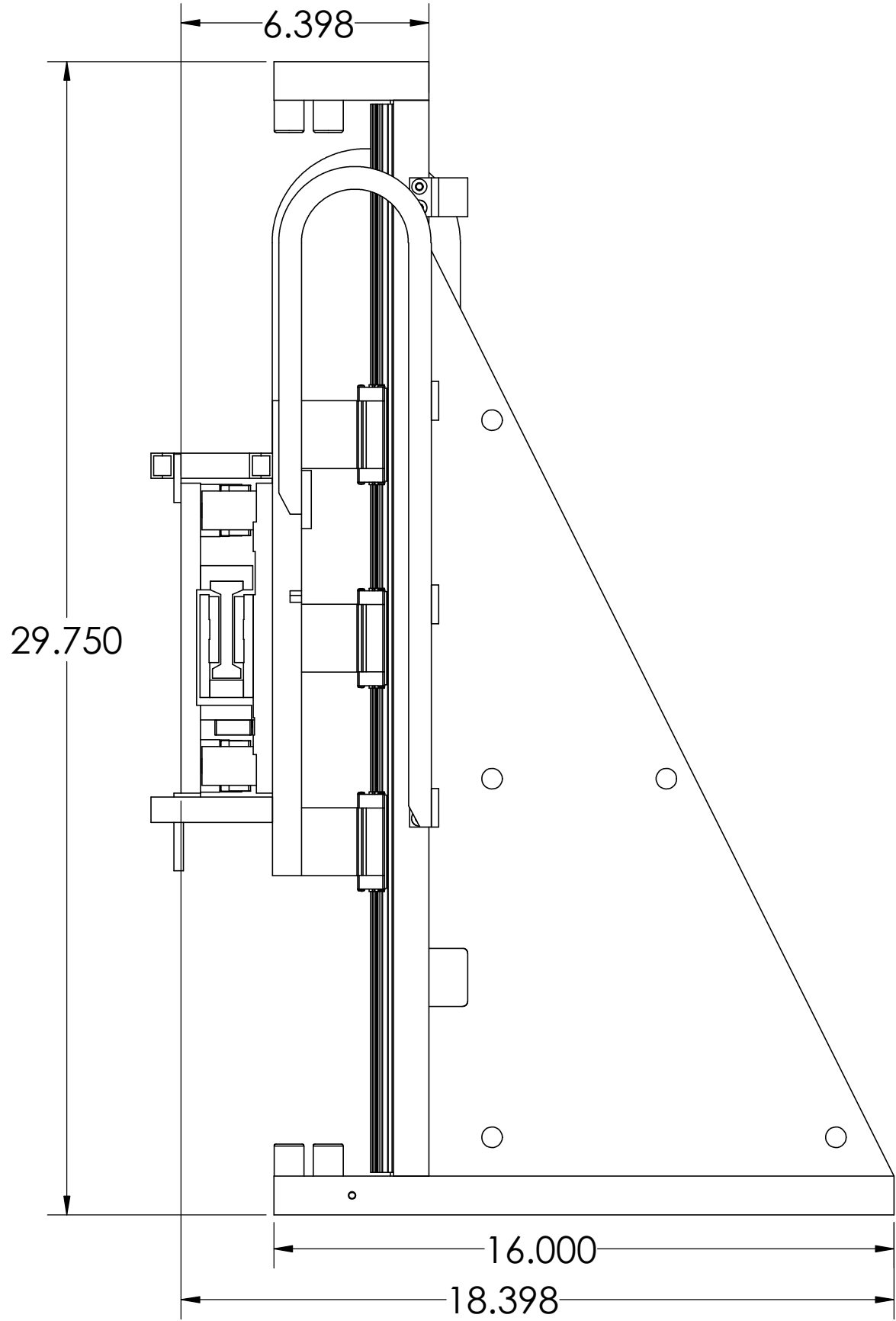
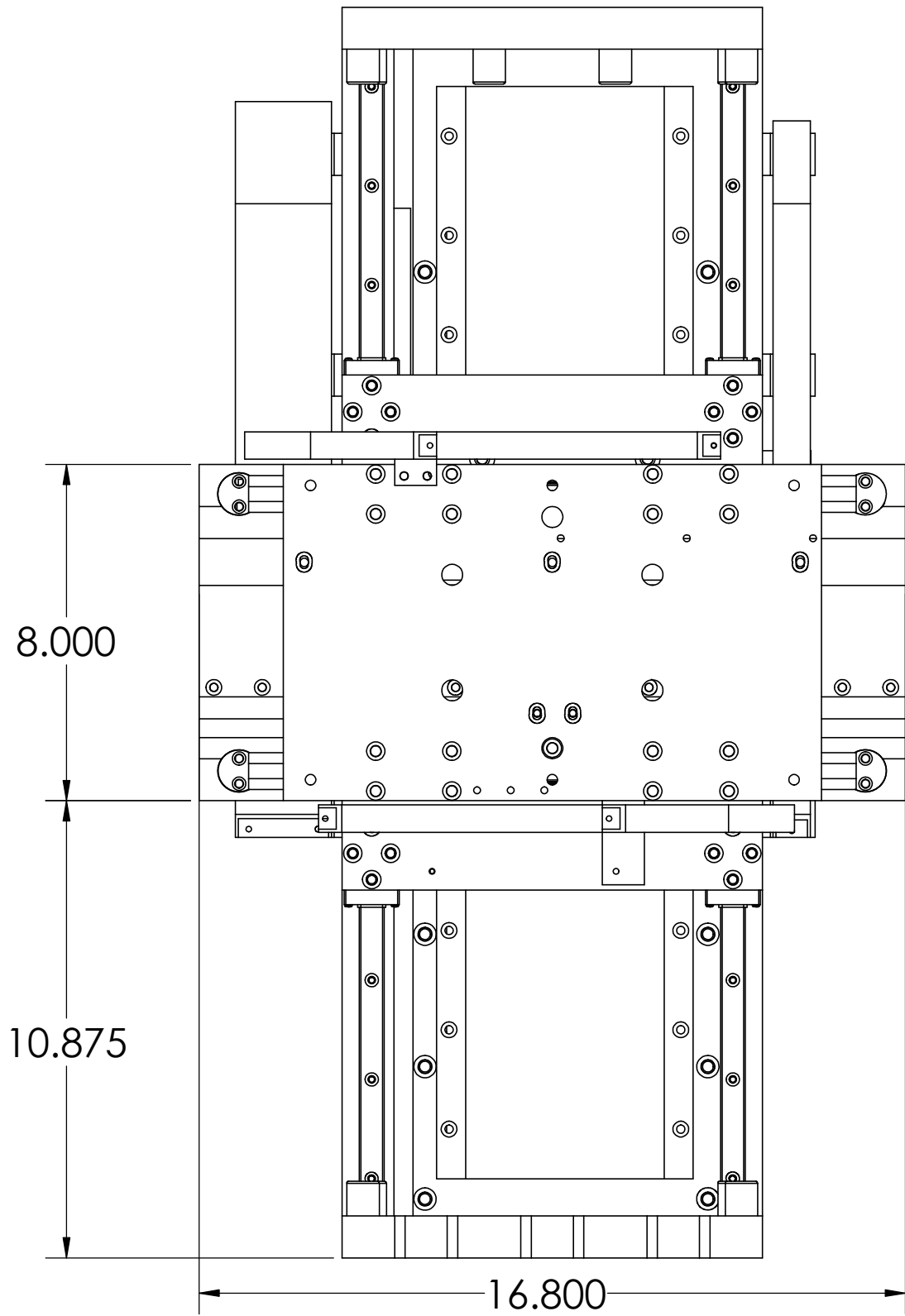
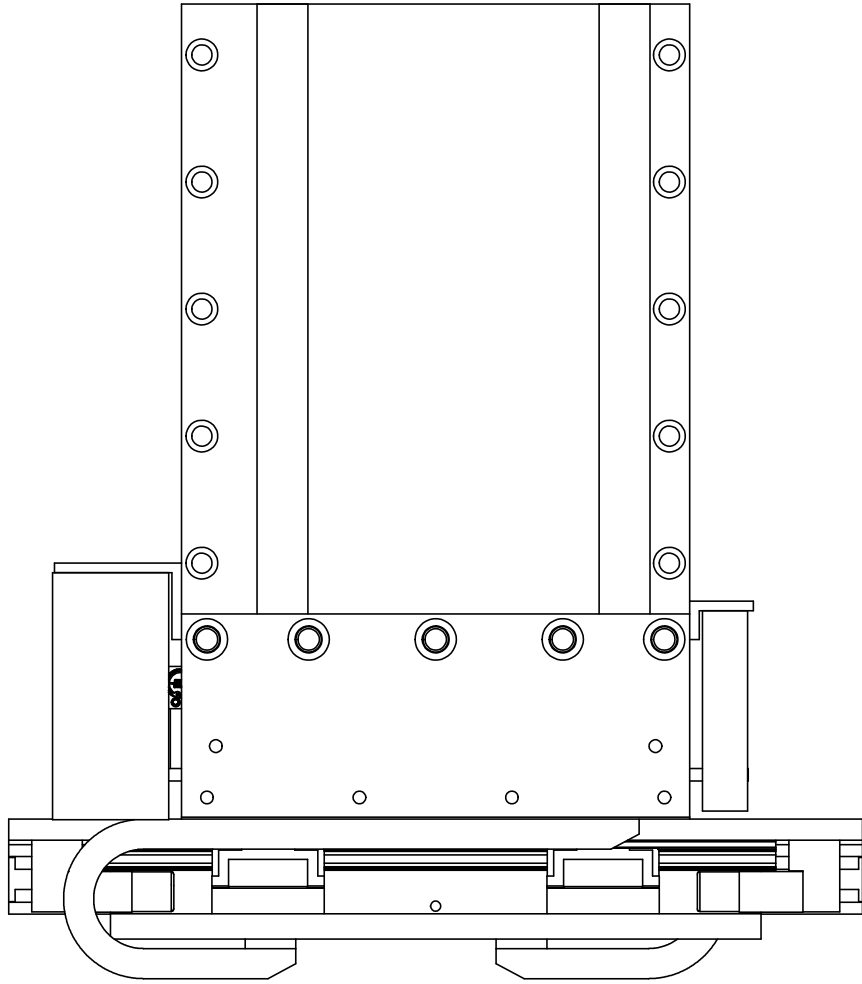


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REVISION TABLE							
REV	ECN#	DESCRIPTION			REV BY	APPROVED	DATE
---	---	Original Drawing			OOG	MPW	6-26-13
A	1702	Added Customer Payload Assembly			OOG	MPW	9-20-13

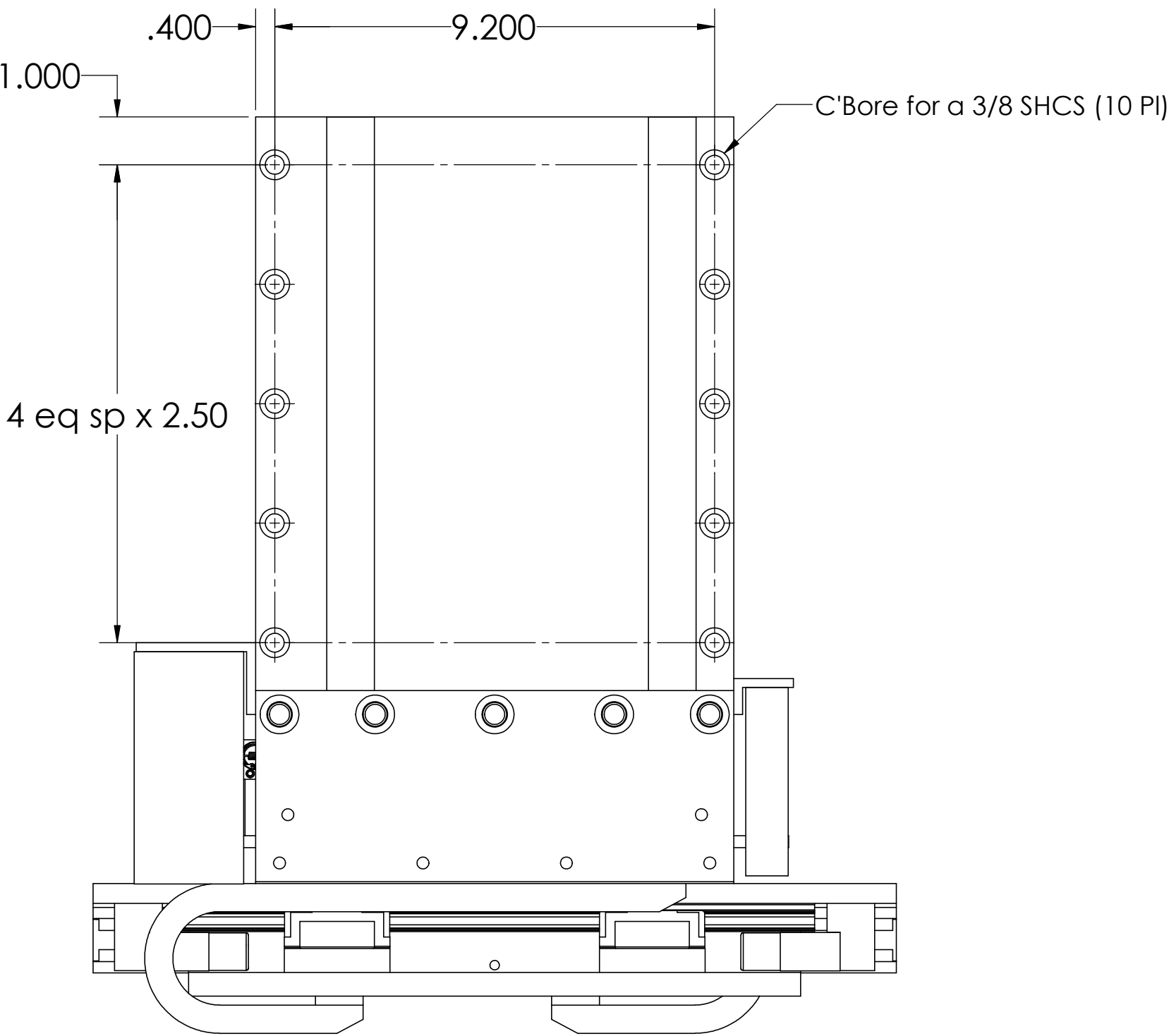


ALL AXIS SHOWN AT MID-STROKE

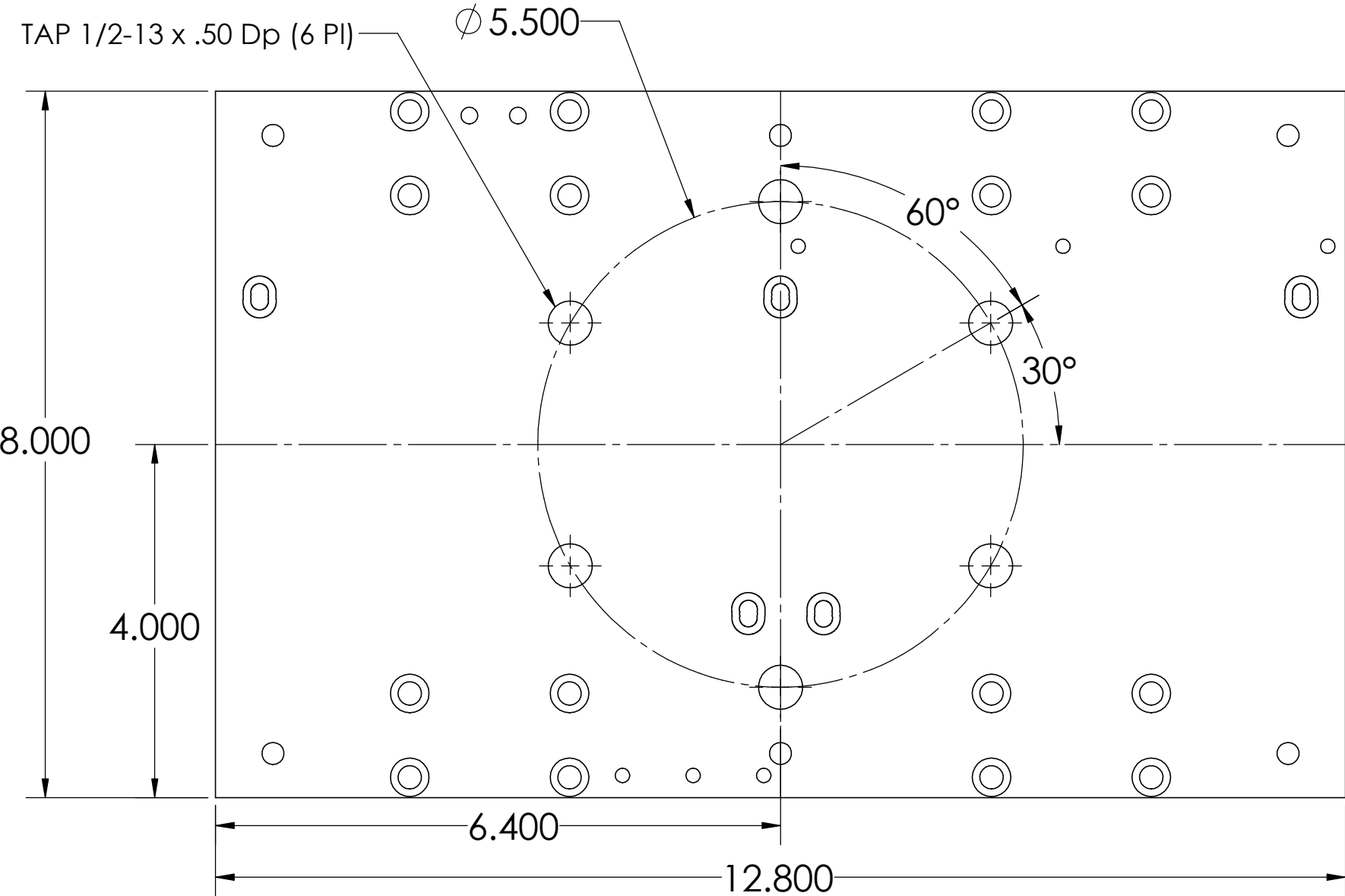
UNLESS SPECIFIED OTHERWISE: All dimensions are in inches. Standard Tolerances are as follows: XXX ±.005 ANGLES ±1° XX ±.010 FILLETS AND X ±.020 CORNERS .010 Remove All Burs and Sharp Edges				MATERIAL Aluminum 6061-T6		FINISH Anodize Blue		TITLE XZ Brushless Linear Motor Gantry	
				DRAWN OOG	DATE 6-26-13	APPROVED MPW	DATE 6-26-13	DWG # 47-0041	REV A
								SHEET 1 of 3	

H2W Technologies, Inc.
26470 Ruether Ave #102 Santa Clarita, CA 91350 USA
Tel: (661) 251-2081 Fax: (661) 251-2067
www.h2wtech.com

Stage Mounting Holes

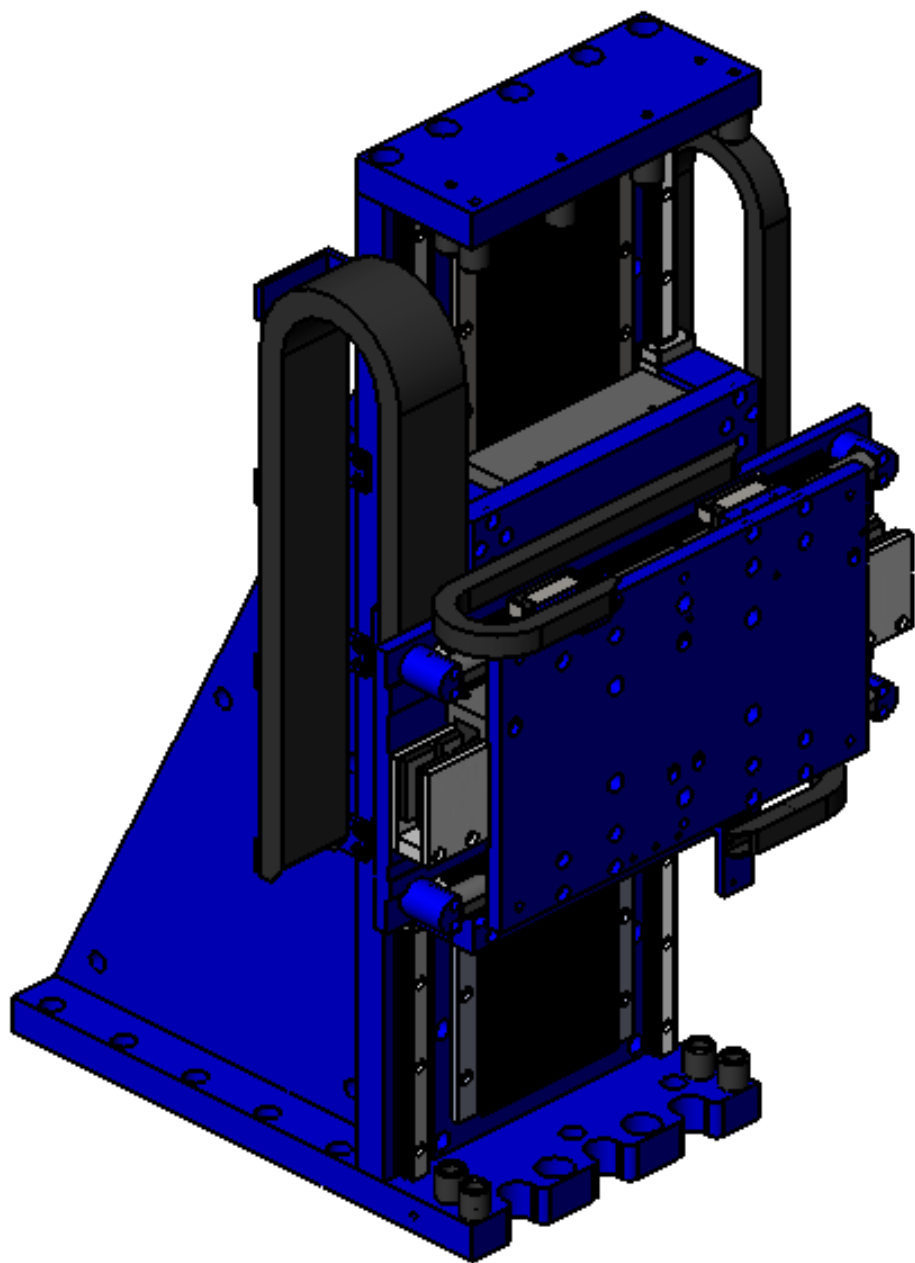
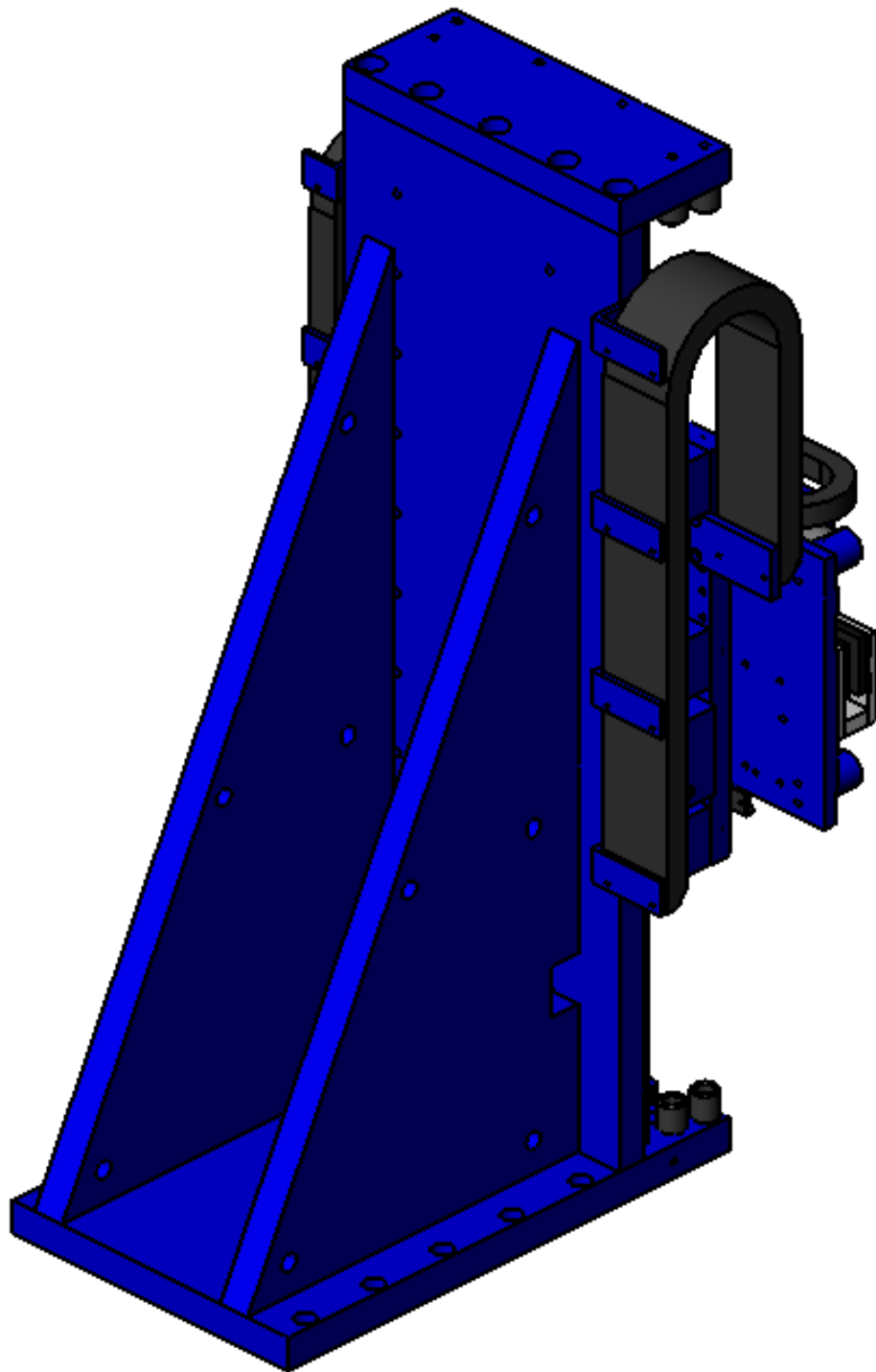


Payload Mounting Holes



Horizontal X-Axis		
Motor P/N	BLDC-05	
Stroke	4.0 IN	101.6 mm
Encoder Resolution	1 micron	
Bearing Type	Recirculating Ball Bearing	
Moving Mass	12 lb	5.5 Kg
Total Mass	33 lb	15 Kg
Resistance @ 20C	20.2 ohms	
Inductance @ 20C	15.0 mH	
Electrical Time Constant	0.7 msec	
Motor Constant	3.36 LBS/SQRT(Watt)	14.95 N/SQRT(Watt)
Force Constant	15.3 LBS/Amp	68.1 N/Amp
Back EMF	2.0 V/ips	78.7 V/m/sec
Continuous Force	50.0 LBS	222 N
Max Power @ 100% Duty	215 Watt	
Peak Force	150 LBS	666 N
Max Power @ 10% Duty	1935 Watts	

Vertical Z-Axis		
Motor P/N	BLSRC-1	
Stroke	13.8 IN	350.5 mm
Encoder Resolution	1 micron	
Bearing Type	Recirculating Ball Bearing	
Moving Mass	21 LBS	9.5 Kg
Total Mass	95 LBS	43 Kg
Resistance @ 20C	6.1 ohms	
Inductance @ 20C	29.0 mH	
Electrical Time Constant	4.8 msec	
Motor Constant	8.89 LBS/SQRT(Watt)	39.6 N/SQRT(Watt)
Force Constant	21.5 LBS/Amp	95.5 N/Amp
Back EMF	2.80 V/ips	110.2 V/m/sec
Continuous Force	167	743 N
Max Power @ 100% Duty	353 Watt	
Peak Force	501 LBS	2224 N
Max Power @ 10% Duty	3177 Watts	



NOTE:
- Moving and Total Mass are per individual stage axis.
- System total mass is 165 Lbs [75Kg](approx.)