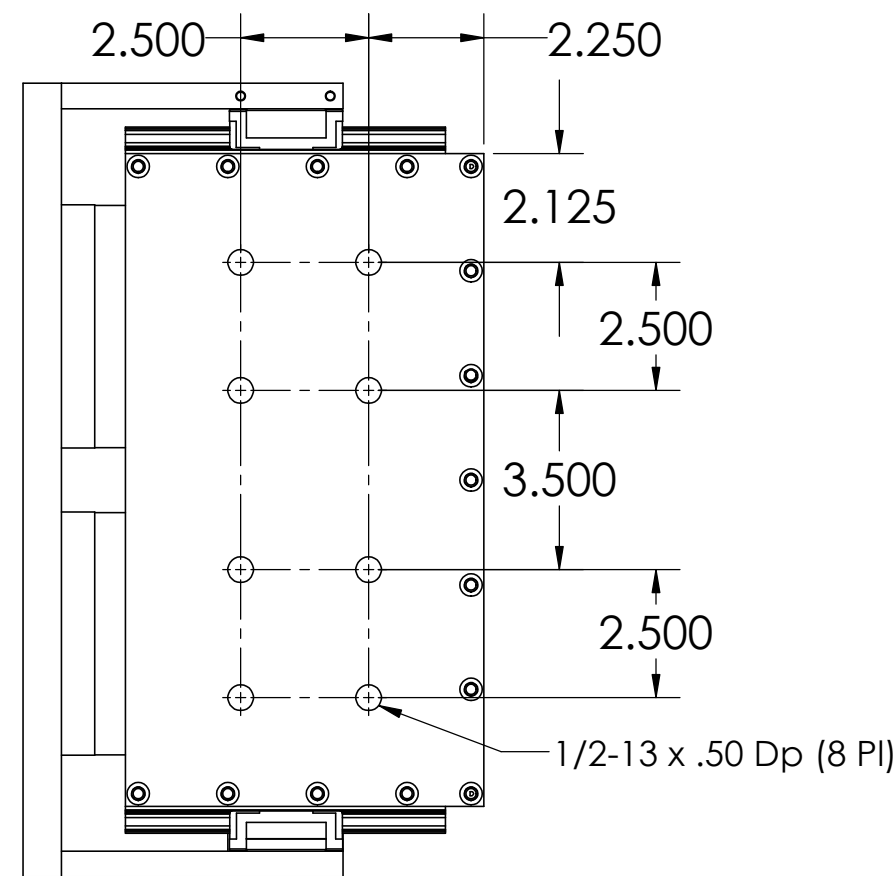
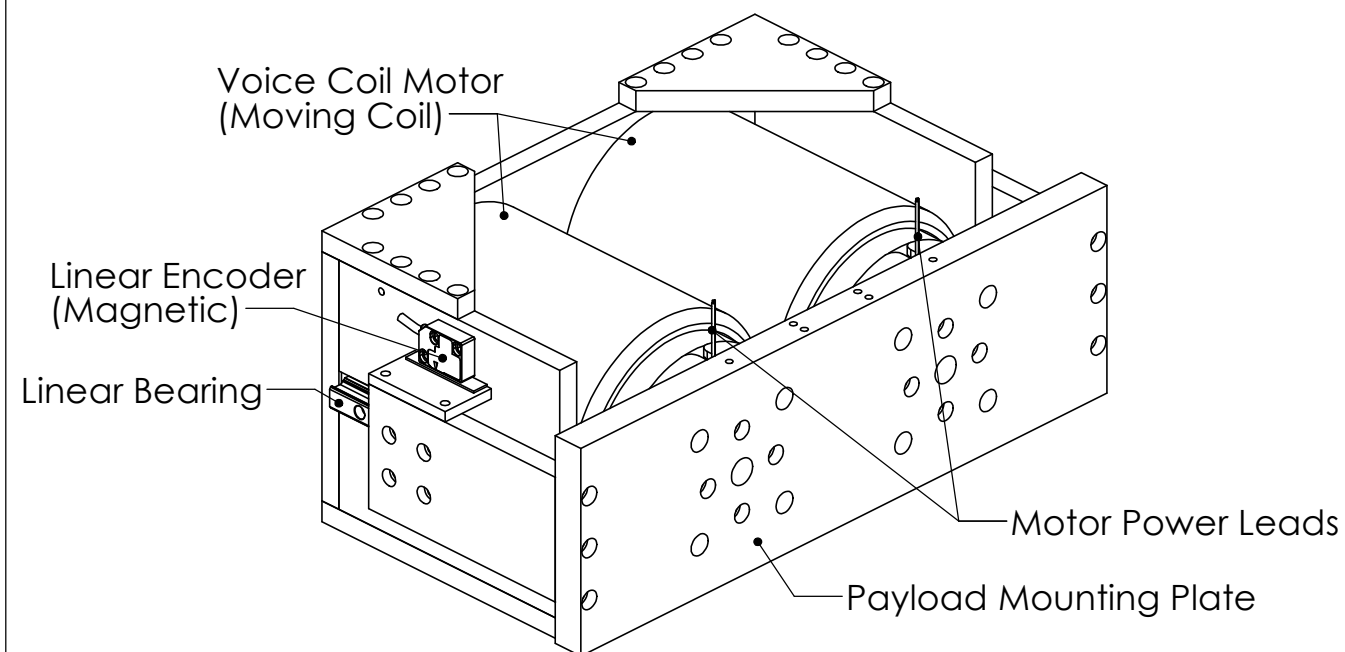
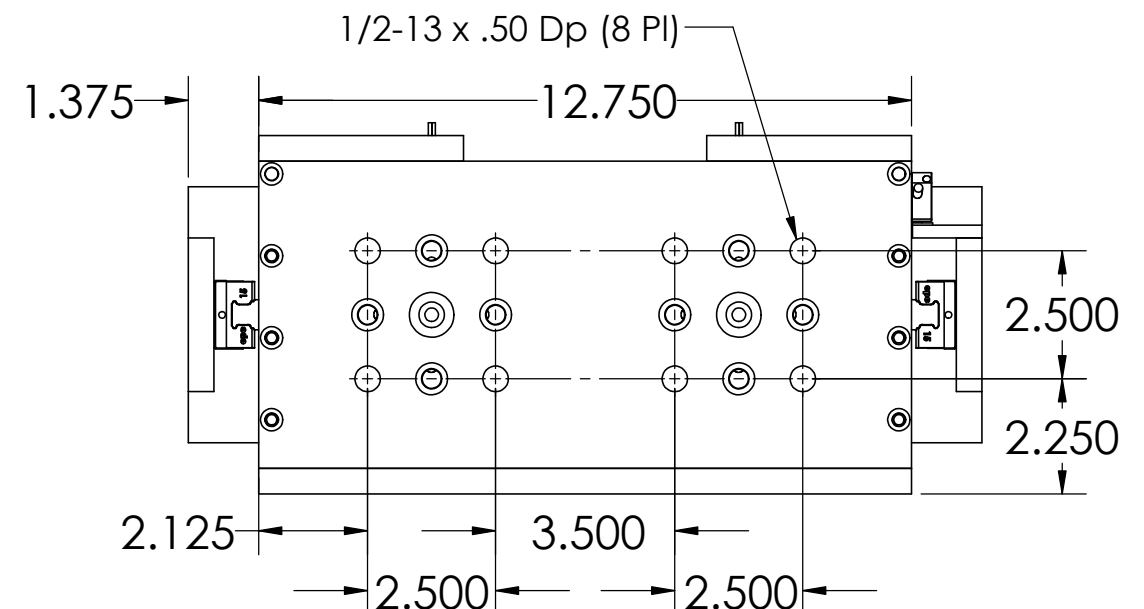
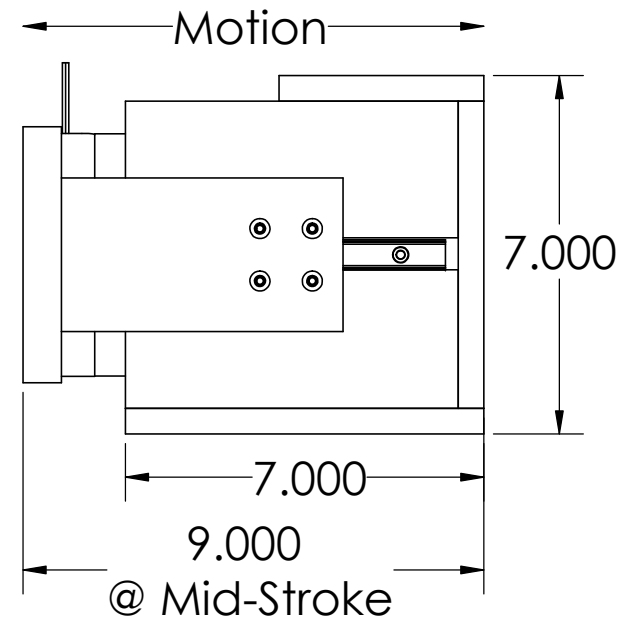
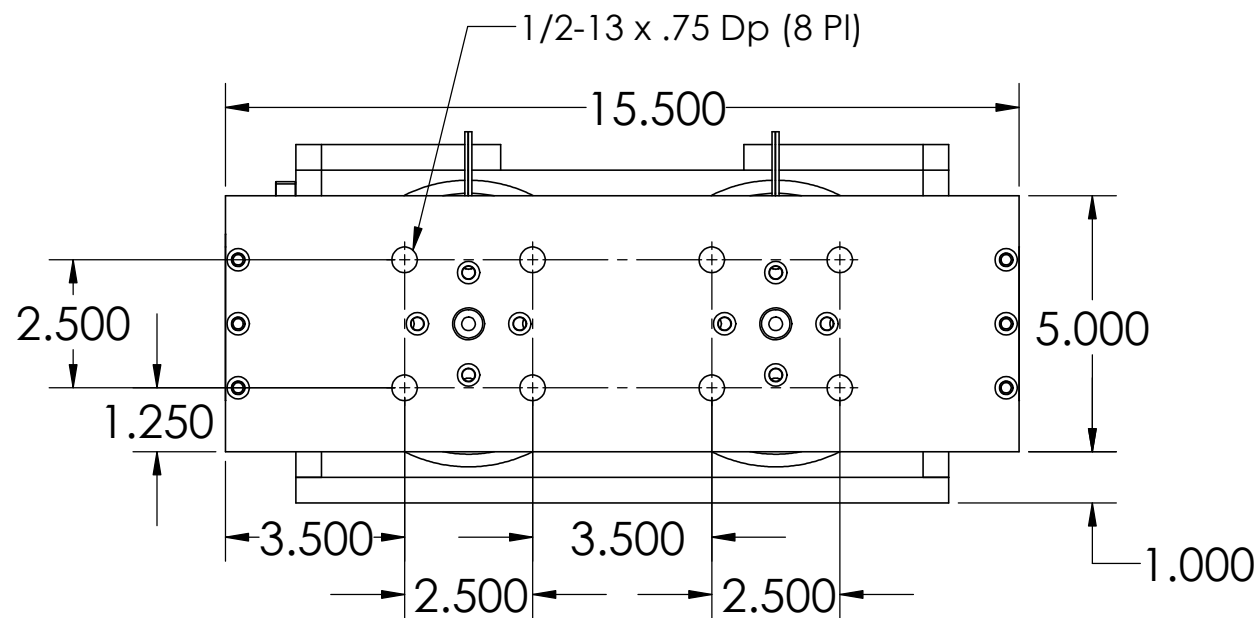


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REVISION TABLE						
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE	
---	---	Original Drawing	OOG	MPW	11-11-14	



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 Burrs and Sharp Edges

MATERIAL		DATE		APPROVED	
FINISH		DATE	9-10-15	APPROVED	MPW
DRAWN	OOG	DATE	9-10-15	APPROVED	MPW

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TITLE			
Voice Coil Positioning Stage Model #: VCS12-2000-LB-01-MC			
DWG #	REV	SHEET	
31-0731	---	1 of 2	

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VOICE COIL POSITIONING STAGE SPECIFICATIONS		
Motor P/N	NCC12-60-1000-2X (parallel)	
Stroke	1.20"	30.5 mm
Encoder Resolution	1 micron	
Encoder Type	Magnetic	
Bearing Type	Linear Bearing	
Moving Part	Coil Assembly	
Moving Mass	19.0 lbs	8.6 kg
Total Mass	109 lbs	24.7 kgrams
Resistance @ 20C	1.5 ohms	
Inductance @ 20C	1.4 mH	
Electrical Time Constant	0.93 msec	
Motor Constant	16.4 LBS/SQRT(Watt)	73.0 N/SQRT(Watt)
Force Constant	40.2 LBS/Amp	178.9 N/Amp
Back EMF	2.3 V/ips	88.5 V/m/sec
Force @ 100% Duty	200 lbs	908 N
Power @ 100% Duty	149 watts	
Current @ 100% Duty	10.0 Amps	
Force @ 10% Duty	600 lbs	2670 N
Power @ 10% Duty	1340 watts	
Current @ 10% Duty	30 Amps	

VOICE COIL POSITIONING STAGE SPECIFICATIONS		
Motor P/N	NCC12-60-1000-2X (series)	
Stroke	1.20"	30.5 mm
Encoder Resolution	1 micron	
Encoder Type	Magnetic	
Bearing Type	Linear Bearing	
Moving Part	Coil Assembly	
Moving Mass	19.0 lbs	8.6 kg
Total Mass	109 lbs	24.7 kgrams
Resistance @ 20C	6.0 ohms	
Inductance @ 20C	5.4 mH	
Electrical Time Constant	0.93 msec	
Motor Constant	16.4 LBS/SQRT(Watt)	73.0 N/SQRT(Watt)
Force Constant	19.5 LBS/Amp	88.5 N/Amp
Back EMF	4.6 V/ips	178.9 V/m/sec
Force @ 100% Duty	200 lbs	908 N
Power @ 100% Duty	149 watts	
Current @ 100% Duty	5.0 Amps	
Force @ 10% Duty	600 lbs	2670 N
Power @ 10% Duty	1340 watts	
Current @ 10% Duty	14.9 Amps	

