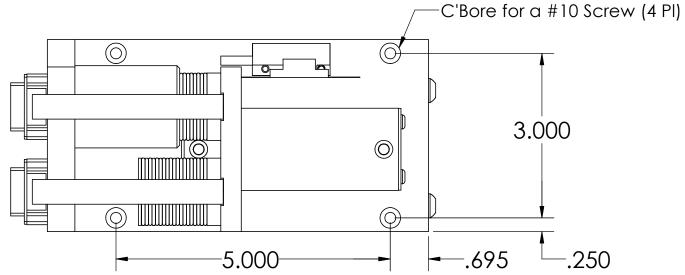
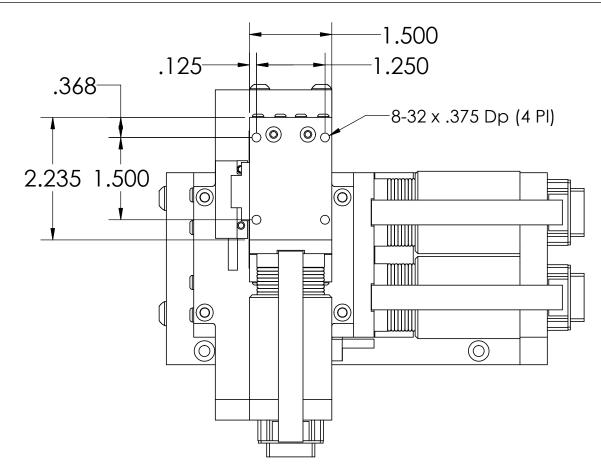
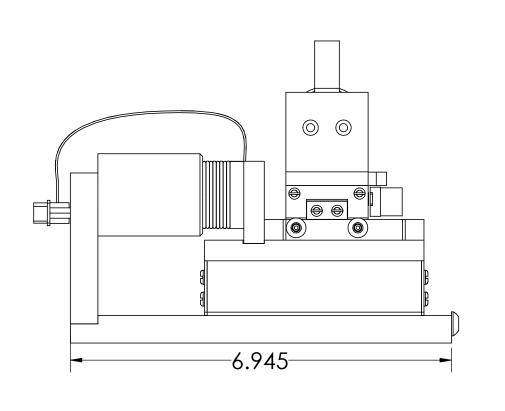
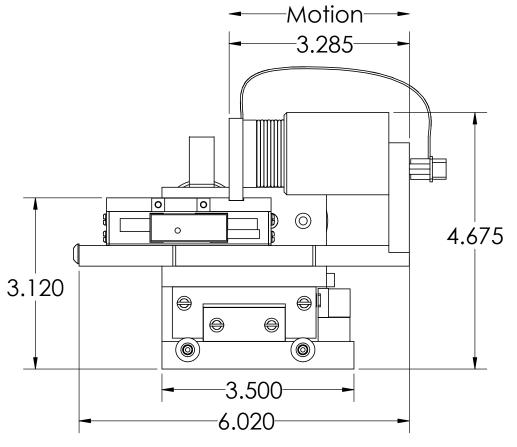
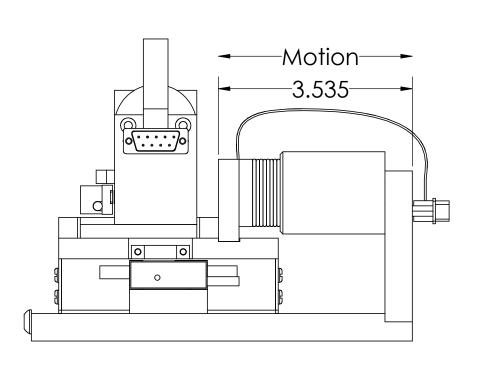
MOTORS HAVE BEEN HIDDEN TO SHOW BASE MOUNTING HOLES











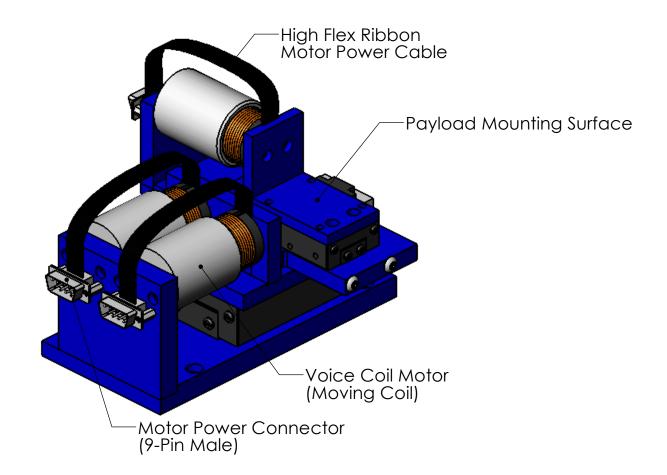
NOTE: Motors shown at mid-stroke

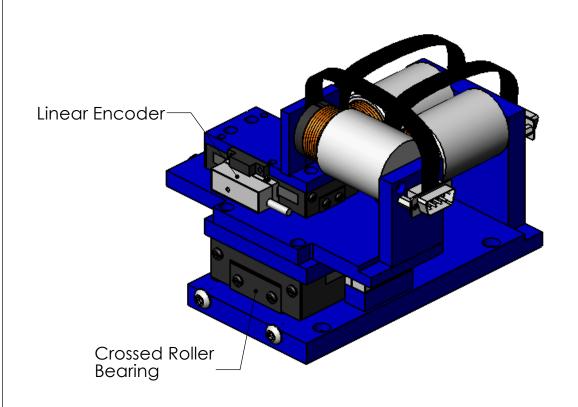
LINE ESS SPECIEIED OTHERWISE.	MATERIAL			
UNLESS SPECIFIED OTHERWISE: All dimensions are in inches				
Standard Tolerances are as follows	FINISH			
.XXX ±.005 ANGLES ±1°	I INISII			
.XX ±.010 FILLETS AND				
.X ±.020 CORNERS .010	DRAWN	DATE	APPROVED	DATE
Remove All Burrs and Sharp Edges				

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

ERWISE: ollows ±1° AND	FINISH				Voice Coil Positioning Stage VCS10-046/023-CR-001-CXY			
.010	DRAWN	DATE	APPROVED	DATE	DWG#	21 0205	REV	SHEET
p Edges	OOG	12-9-11	MPW	12-9-11		31-0305		1 of 2

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VOICE COIL POSITIONING STAGE SPECIFICATIONS (Top Axis)					
Motor P/N (2 Motors)	NCC10-15-023-1X				
Stroke	1.00 in	25.4 mm			
Encoder Resolution	0.1 mi	cron			
Encoder Type	Opti	cal			
Bearing Type	Crossed Roller				
Moving Mass	0.47 lbs	213 g			
Total Mass	1.92 lbs	870 g			
Resistance @ 20C	7.5 ohms				
Inductance @ 20C	3.3 mH				
Electrical Time Constant	0.44 msec				
Motor Constant	0.85 LBS/SQRT(Watt)	3.78 N/SQRT(Watt)			
Force Constant	2.3 LBS/Amp	10.2 N/Amp			
Back EMF	0.26 V/ips	10.2 V/m/sec			
Force @ 100% Duty	2.3 lbs	10.2 N			
Power @ 100% Duty	7 watts				
Current @ 100% Duty	1.0 amps				
Force @ 10% Duty	6.9 lbs	30.7 N			
Power @ 10% Duty	66 watts				
Current @ 10% Duty	3.0 amps				
Moving Part	Coil Assembly				

VOICE COIL POSITIONING STAGE SPECIFICATIONS (Bottom Axis)				
Motor P/N (2 Motors)	NCC10-15-023-1X			
Stroke	1.00 in	25.4 mm		
Encoder Resolution	0.1 micron			
Encoder Type	Opti	cal		
Bearing Type	Crossed Roller			
Moving Mass	1.43 lbs	647 g		
Total Mass	4.82 lbs	2188 g		
Resistance @ 20C	15.0 ohms			
Inductance @ 20C	6.6 mH			
Electrical Time Constant	0.44 msec			
Motor Constant	1.70 LBS/SQRT(Watt)	7.5 N/SQRT(Watt)		
Force Constant	4.6 LBS/Amp	20.4 N/Amp		
Back EMF	0.52 V/ips	20.4 V/m/sec		
Force @ 100% Duty	4.6 lbs	20.4 N		
Power @ 100% Duty	14 watts			
Current @ 100% Duty	1.0 amps			
Force @ 10% Duty	13.8 lbs	61.4 N		
Power @ 10% Duty	132 watts			
Current @ 10% Duty	3.0 amps			
Moving Part	Coil Assembly			

	TITLE		oil Positioning St 5/023-CR-00	
1	DWG#	31_0305	REV	SHEET