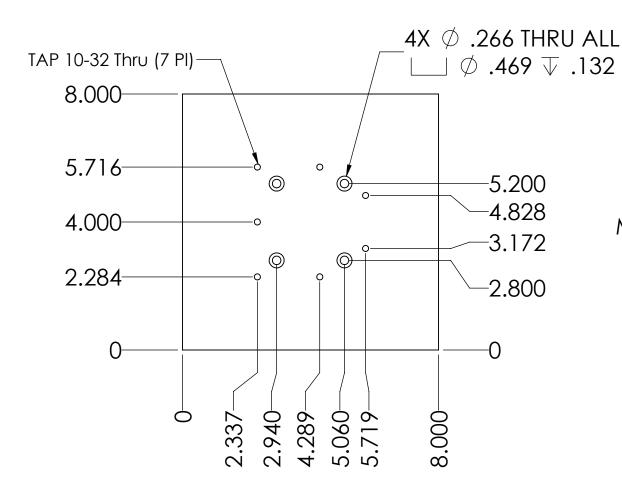
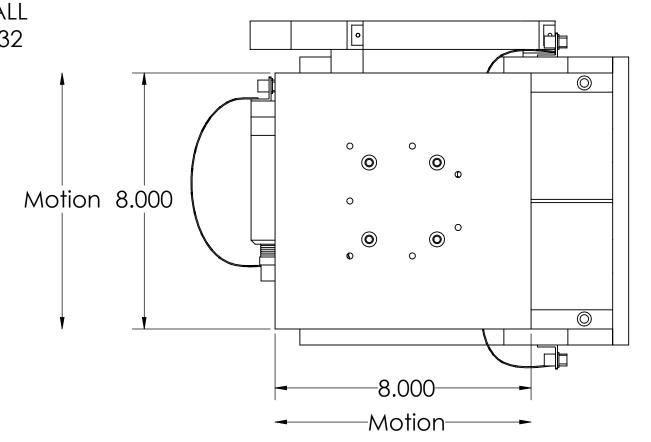
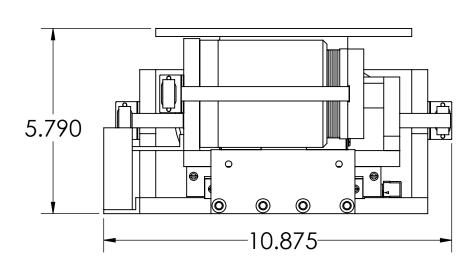
These drawings and specifications are the property of H2W Technologies, Inc. They are issued in confidence and shall not be reproduced, copied, or used without written permission from H2W Technologies, Inc.

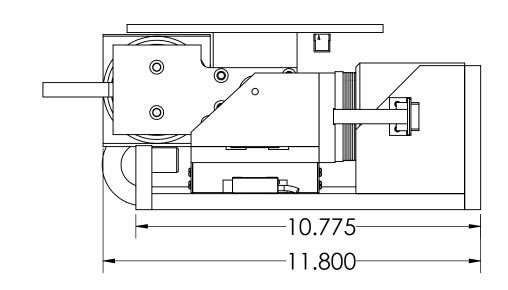
TOP PAYLOAD MOUNTING PLATE

REVISION TABLE REV BY APPROVED DATE --- Original Drawing OOG MPW 10-26-12









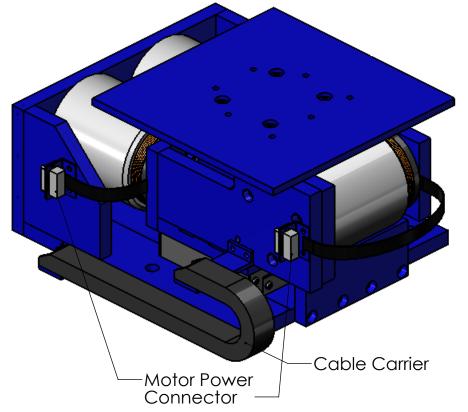
H2W Technologies, Inc.26470 Ruether Ave #102 Santa Clarita, CA 91350 USA Tel: (661) 251-2081 Fax: (661) 251-2067 www.h2wtech.com

31-0596

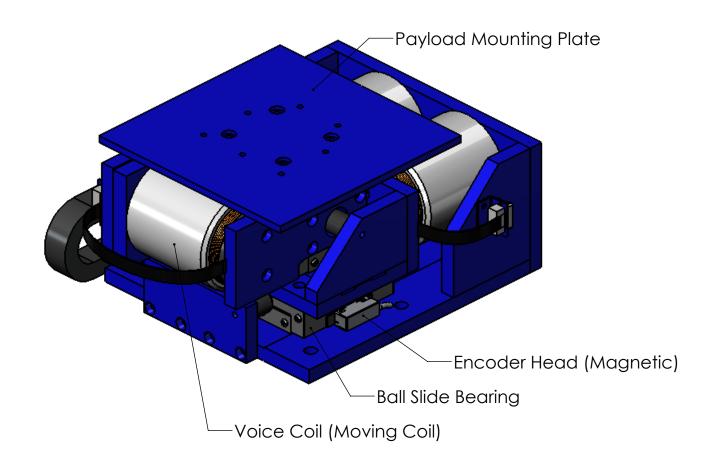
UNLESS SPECIFIED OTHERWISE:
All dimensions are in inches
Standard Tolerances are as follows
XXX ± 0.05 ANGLES ±1°
XX ± 0.10 FILLETS AND
X ± 0.20 CORNERS .010
Remove All Burrs and Sharp Edges

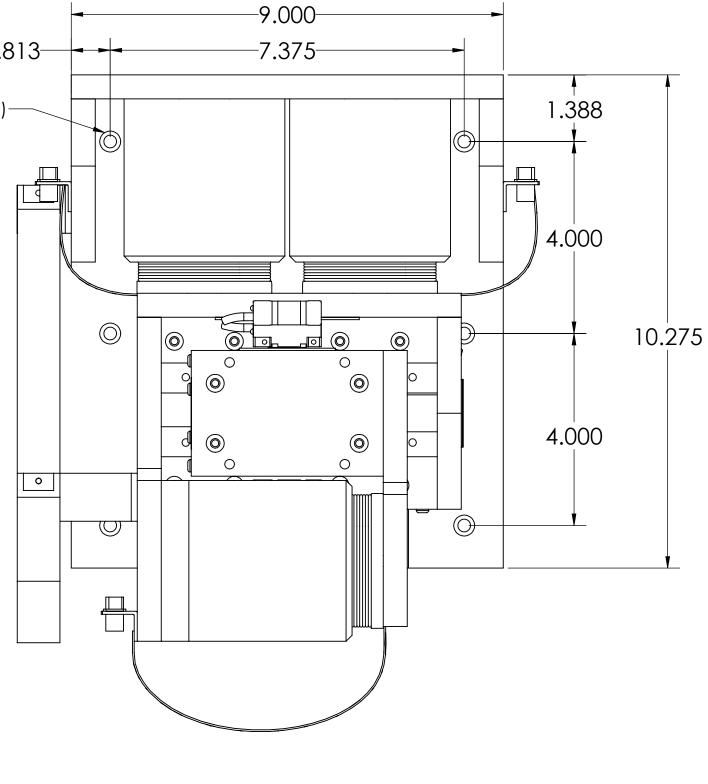
10-26-12 MPW Voice Coil Positioning Stage Mode #:VCS08-700/08-350-BS-01-MC-XY

These drawings and specifications are the present of the present o



.8 C'Bore for 1/4-20 SHCS (6 PI)-





Voice Coil Positioning Stage Mode #:VCS08-700/08-350-BS-01-MC-XY

31-0596

VOICE COIL POSITIONING STAGE SPECIFICATIONS (Top Axis)				
Motor P/N	NCC08-34-350-2X			
Stroke	0.80"	20.3 mm		
Encoder Resolution	1 micron			
Encoder Type	Magnetic			
Bearing Type	Ball Slide			
Moving Mass	6.5 lbs	2950 g		
Total Mass				
Resistance @ 20C	6.25 ohms			
Inductance @ 20C	5.0 mH			
Electrical Time Constant	0.80 msec			
Motor Constant	5.80 LBS/SQRT(Watt)	25.8 N/SQRT(Watt)		
Force Constant	14.5 LBS/Amp	64.2 N/Amp		
Back EMF	1.6 V/ips	64.2 V/m/sec		
Force @ 100% Duty	35 LBS	156 N		
Power @ 100% Duty	36 Watts			
Current @ 100% Duty	2.4 amps			
Force @ 10% Duty	105 LBS	467 N		
Power @ 10% Duty	330 Watts			
Current @ 10% Duty	7.3 amps			
Moving Part	Coil Assembly			

VOICE COIL POSITIONING STAGE SPECIFICATIONS (Bottom Axis)				
Motor P/N (2 Motors)	NCC08-34-350-2X			
Stroke	0.80"	20.3 mm		
Encoder Resolution	1 micron			
Encoder Type	Magnetic			
Bearing Type	Ball Slide			
Moving Mass	20.5 lbs	9300 g		
Total Mass				
Resistance @ 20C	12.5 ohms			
Inductance @ 20C	10.0 mH			
Electrical Time Constant	0.80 msec			
Motor Constant	11.6 LBS/SQRT(Watt)	51.6 N/SQRT(Watt)		
Force Constant	29 LBS/Amp	129 N/Amp		
Back EMF	3.2 V/ips	128.4 V/m/sec		
Force @ 100% Duty	70 LBS	312 N		
Power @ 100% Duty	72 Watts			
Current @ 100% Duty	4.8 amps			
Force @ 10% Duty	210 LBS	935 N		
Power @ 10% Duty	660 Watts			
Current @ 10% Duty	14.6 amps			
Moving Part	Coil Assembly			

NOTE:
- Electrical specs & masses are per individual axis
- Total stage weight = 42.50 lbs (19.3Kg)

	Voice Coil Positioning Stage Mode #:VCS08-700/08-350-BS-01-MC-XY				
DWG# 31-0596	REV	SHEET 3 of 3			