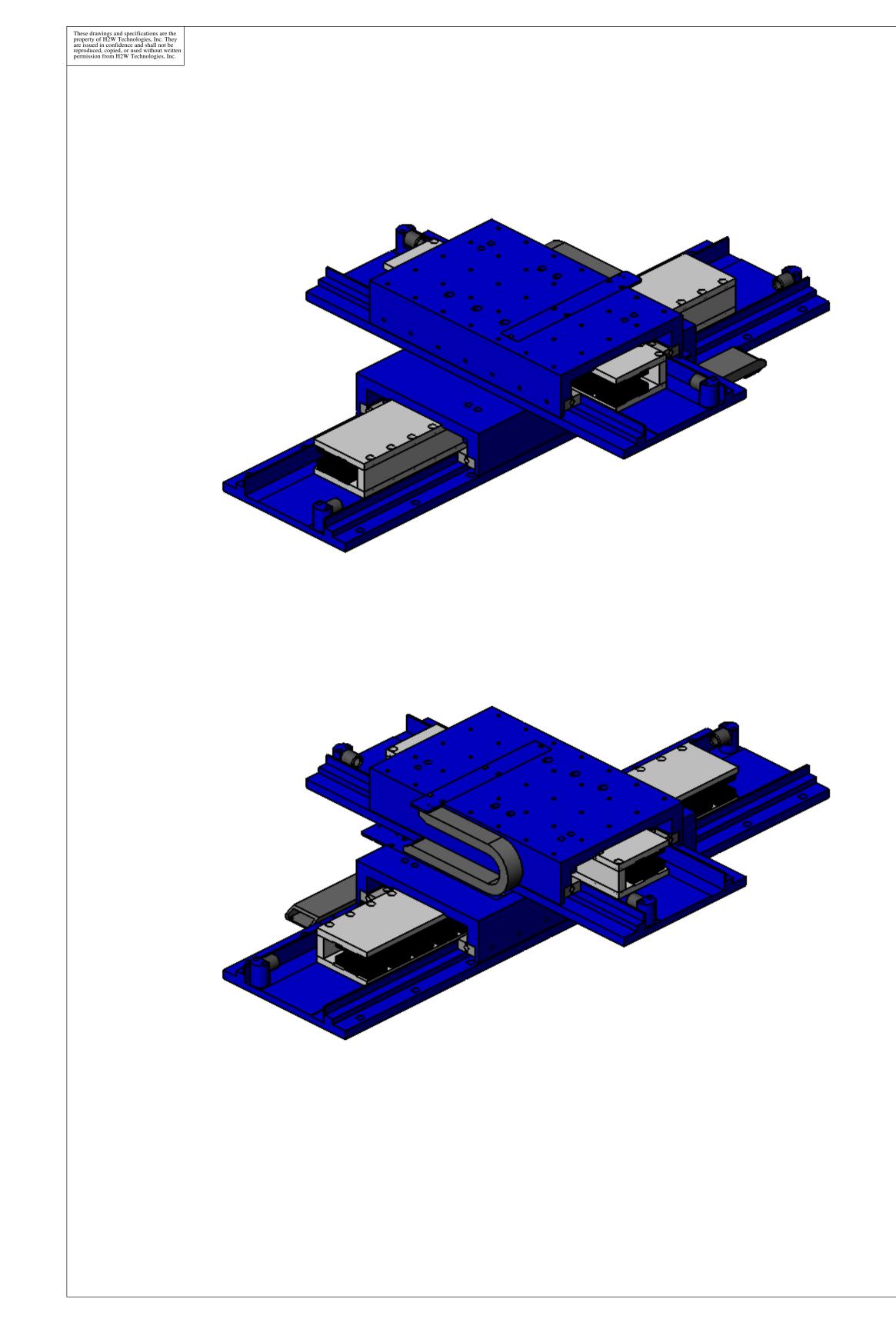


REVISION TABLE						
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE	
		Original Drawing	OOG	MPW	3-25-11	
А	1343	Increased Strokes: X = 17.65", Y = 7.95"	00G	MPW	3-25-11	
В	1344	Increased Strokes: X = 19.0", Y = 9.0"	00G	MPW	3-31-11	
С	1376	Added 1/4-20 Mounting Holes to Y-Axis Table	00G	MPW	8-9-11	



CROSSED ROLLER POSITIONING STAGE SPECIFICATIONS (Top Axis)							
Motor P/N	BLDD-02						
Stroke	9 in	228.6 mm					
Encoder Resolution	0.1 micron						
Bearing Type	Crossed Roller						
Moving Mass	13.04 lbs	5914 g					
Total Mass	51.39 lbs	23310 g					
Resistance @ 20C	8.0 ohms						
Inductance @ 20C	10 mH						
Electrical Time Constant	1.3 msec						
Motor Constant	4.40 LBS/SQRT(Watt)	19.57 N/SQRT(Watt)					
Force Constant	12.3 LBS/Amp	54.5 N/Amp					
Back EMF	1.60 V/ips	63.0 V/m/sec					
Force @ 100% Duty	52.4 lbs	233.1 N					
Power @ 100% Duty	142 watts						
Current @ 100% Duty	4.3 amps						
Force @ 10% Duty	157.2 lbs	669.3 N					
Power @ 10% Duty	1278 watts						
Current @ 10% Duty	12.9 amps						
Stage Length	23 in	584.2 mm					
Stage Width	9.95 in	252.73 mm					
Stage Height	3.05 in	77.47 mm					

CROSSED ROLLER POSITIONING STAGE SPECIFICATIONS (Bottom Axis)							
Motor P/N	BLDD-02						
Stroke	19 in	482.6 mm					
Encoder Resolution	0.1 micron						
Bearing Type	Crossed Roller						
Moving Mass	14.25 lbs	6463 g					
Total Mass	72.15 lbs	32726 g					
Resistance @ 20C	8.0 ohms						
Inductance @ 20C	10 mH						
Electrical Time Constant	1.3 msec						
Motor Constant	4.40 LBS/SQRT(Watt)	19.57 N/SQRT(Watt)					
Force Constant	12.3 LBS/Amp	54.5 N/Amp					
Back EMF	1.60 V/ips	63.0 V/m/sec					
Force @ 100% Duty	52.4 lbs	233.1 N					
Power @ 100% Duty	142 watts						
Current @ 100% Duty	4.3 amps						
Force @ 10% Duty	157.2 lbs	669.3 N					
Power @ 10% Duty	1278 watts						
Current @ 10% Duty	12.9 amps						
Stage Length	35 in	889 mm					
Stage Width	10.74 in	272.8 mm					
Stage Height	3.05 in	77.47 mm					

NOTE: - Electrical specs & masses are per individual axis - Total stage weight = 125 lbs (56.5 kg)

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