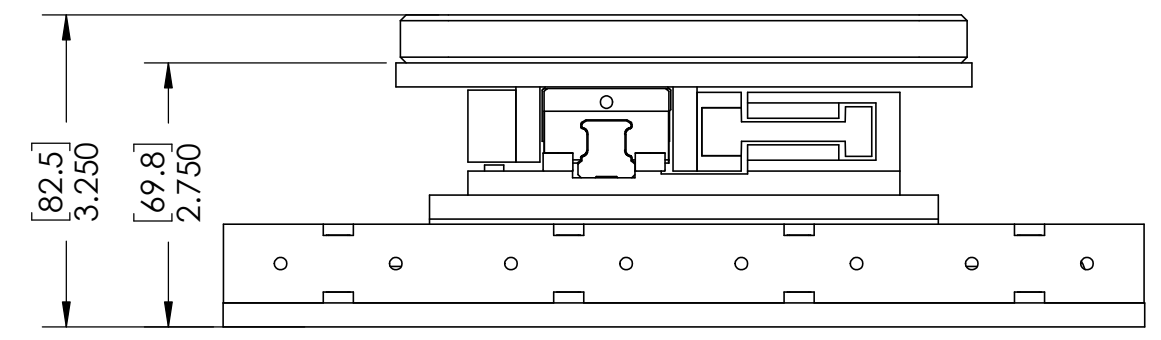
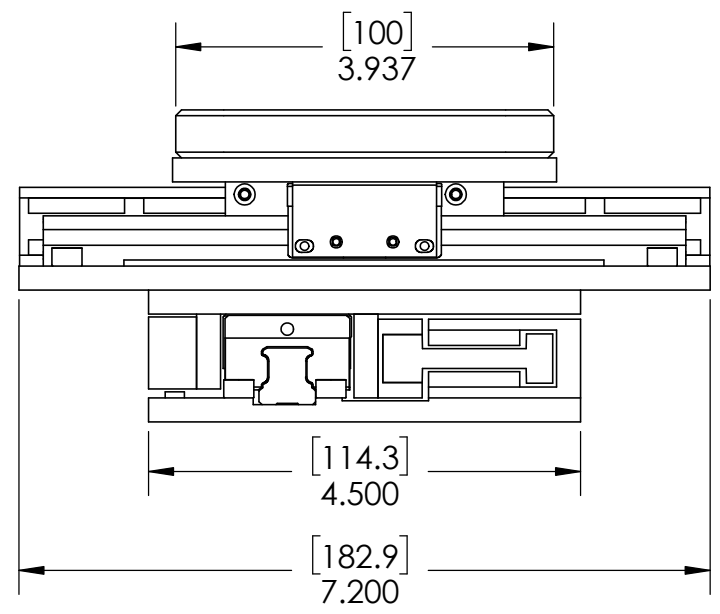
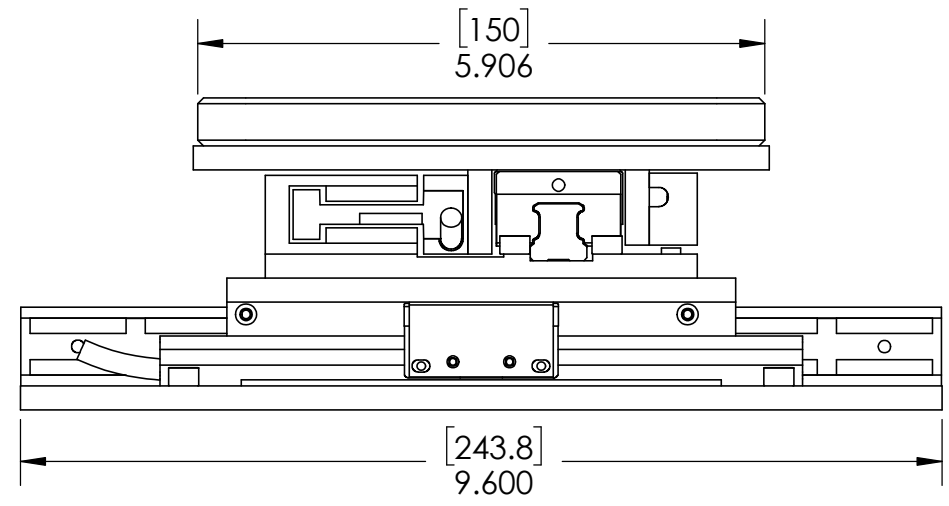
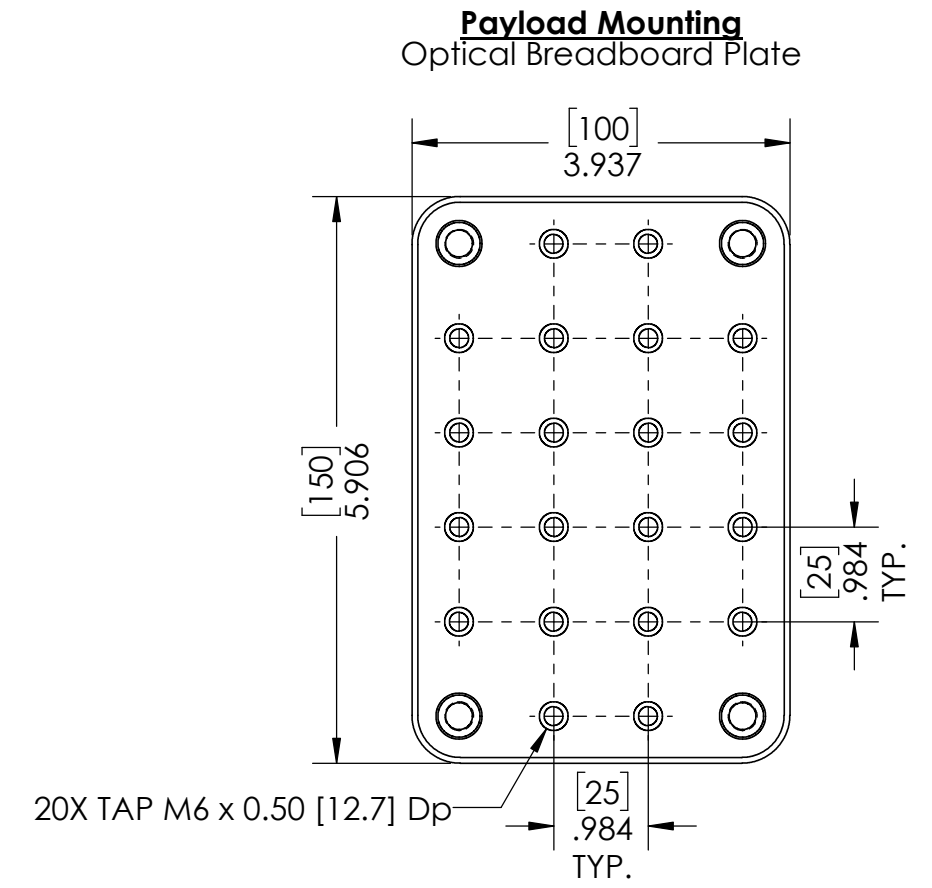
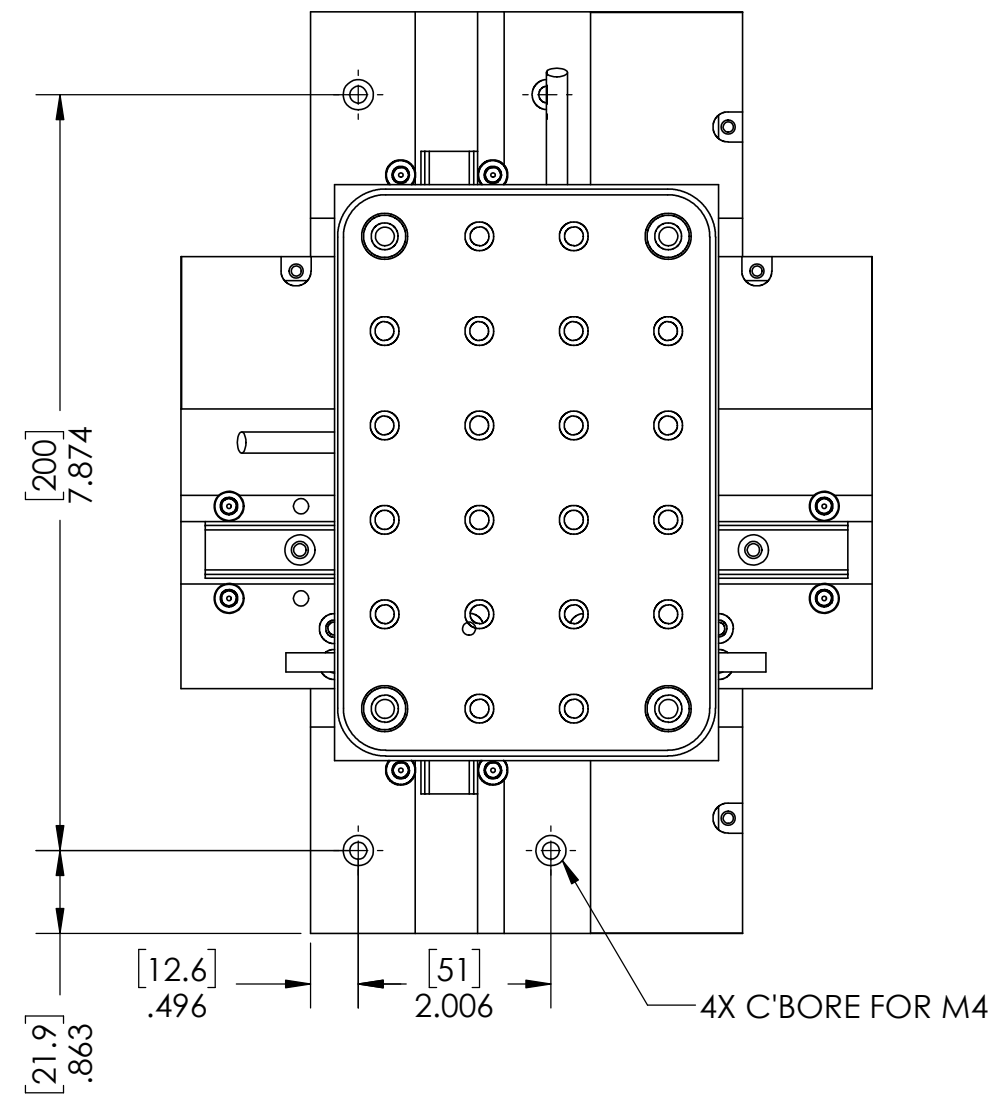


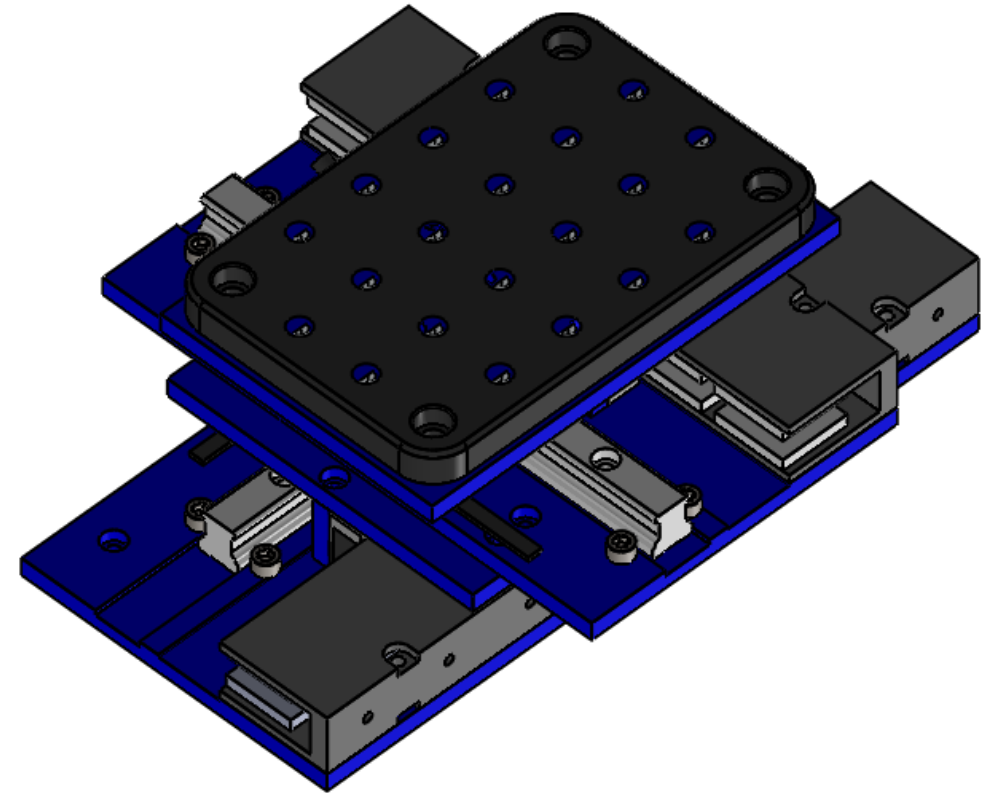
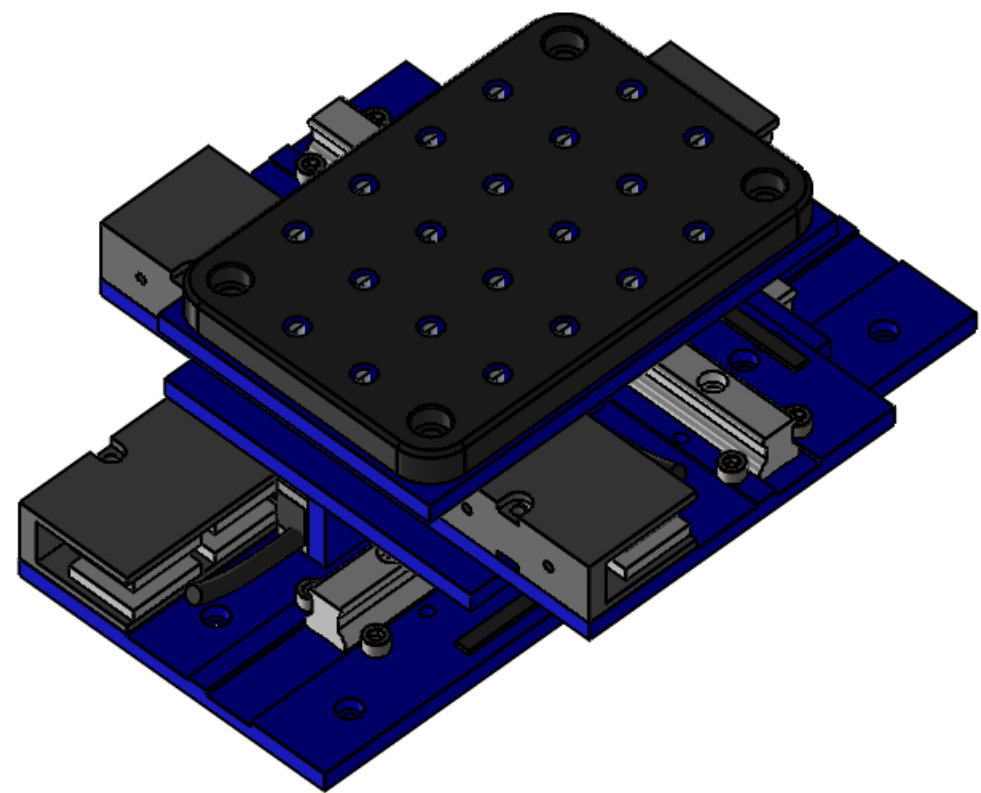
REVISION TABLE					
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
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ALL AXIS SHOWN AT MID-STROKE

SINGLE RAIL POSITIONING STAGE SPECIFICATIONS (Top Axis)		
Motor P/N	BLDM-B02	
Stroke	4.3"	109 mm
Encoder Resolution	1 micron	
Bearing Type	Linear Bearing	
Moving Mass	0.80 lbs	0.36 Kg
Total Mass	3.6 lbs	1.63 Kg
Resistance @ 25C	3.2 ohms	
Inductance @ 25C	15.9 mH	
Electrical Time Constant	1.0 msec	
Motor Constant	0.84 LBS/SQRT(Watt)	3.7 N/SQRT(Watt)
Force Constant	1.48 LBS/A Peak	6.57 N/A Peak
Back EMF	0.17 V/ips	6.7 V/m/sec
Force @ 100% Duty	3.1 LBS	13.8 N
Power @ 100% Duty	19.6 Watts	
Current @ 100% Duty	2.1 Amps	
Force @ 10% Duty	9.4 LBS	41.8 N
Power @ 10% Duty	176 Watts	
Current @ 10% Duty	6.3 Amps	

SINGLE RAIL POSITIONING STAGE SPECIFICATIONS (Bottom Axis)		
Motor P/N	BLDM-B04	
Stroke	4.3"	109 mm
Encoder Resolution	1 micron	
Bearing Type	Linear Bearing	
Moving Mass	1.4 lbs	0.64 Kg
Total Mass	5.0 lbs	2.27 Kg
Resistance @ 25C	6.4 ohms	
Inductance @ 25C	4.0 mH	
Electrical Time Constant	1.0 msec	
Motor Constant	1.2 LBS/SQRT(Watt)	5.2 N/SQRT(Watt)
Force Constant	3.0 LBS/A Peak	13.2 N/A Peak
Back EMF	0.34 V/ips	13.2 V/m/sec
Force @ 100% Duty	6.2 LBS	27.8 N
Power @ 100% Duty	39.3 Watts	
Current @ 100% Duty	2.1 Amps	
Force @ 10% Duty	18.7 LBS	83.3 N
Power @ 10% Duty	354 Watts	
Current @ 10% Duty	6.3 Amps	



Mases do not include Payload Mounting Optical Breadboard Plate 1.0 lbs [0.45 Kg]