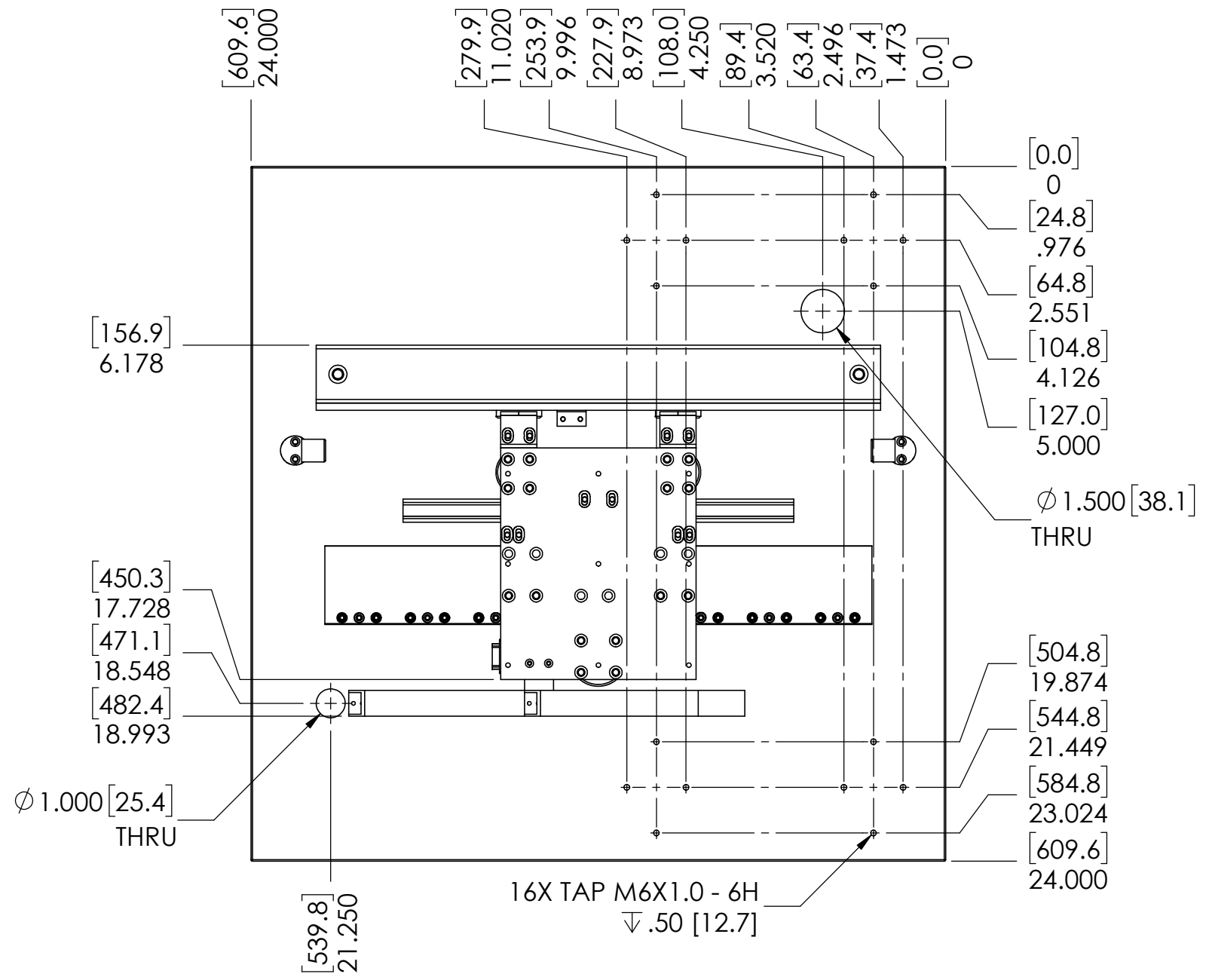
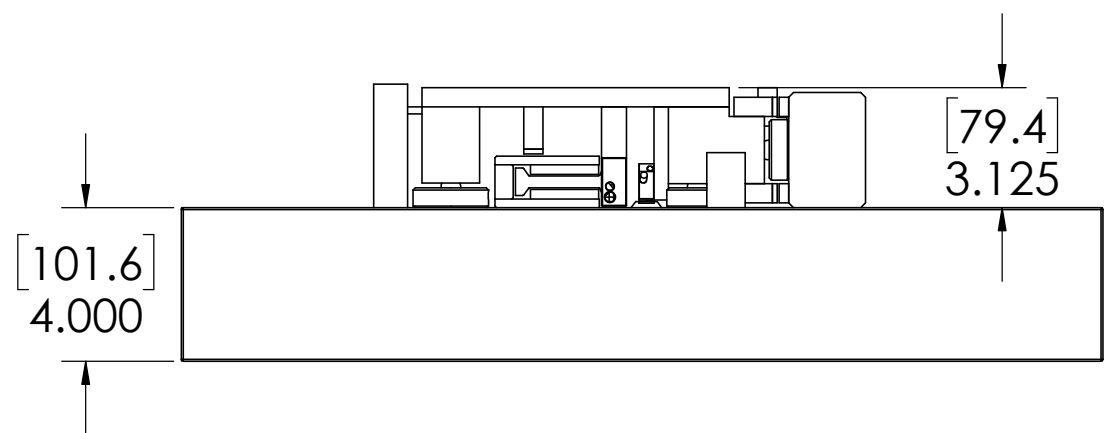
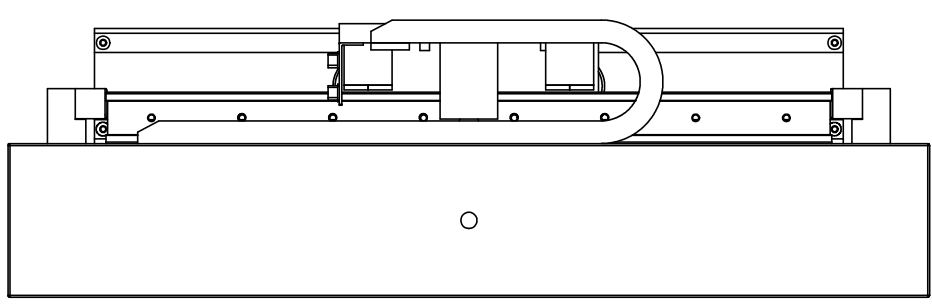


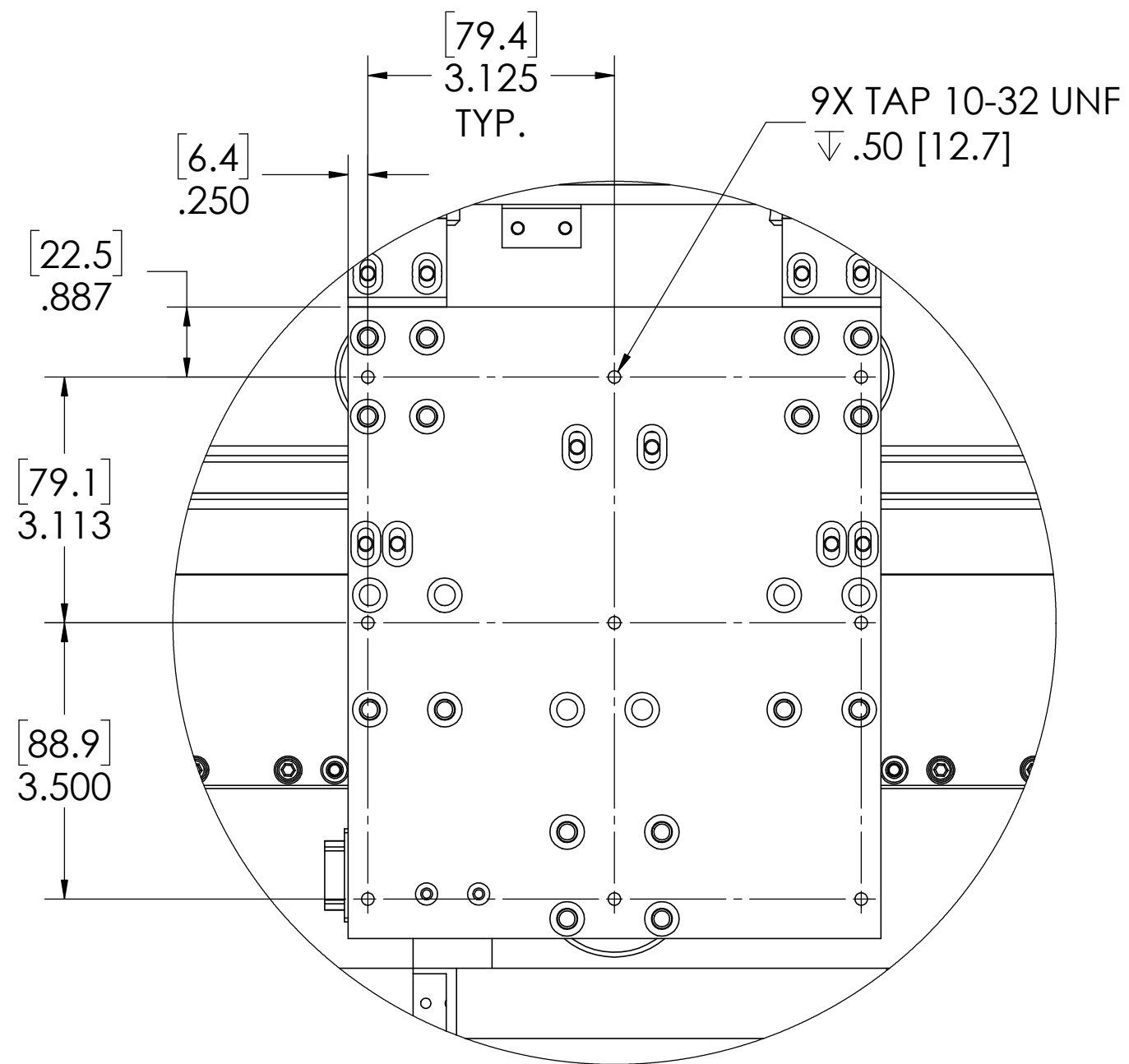
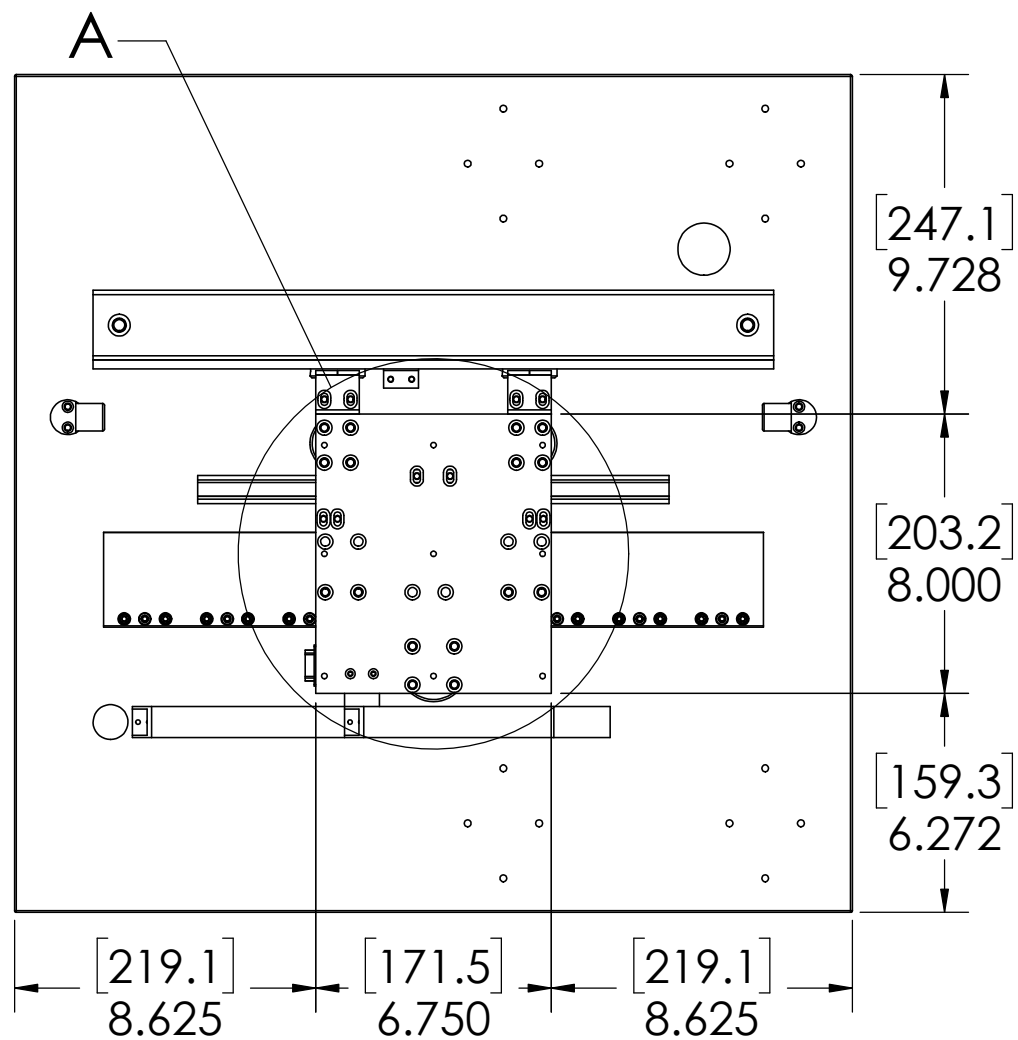
REVISION TABLE					
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
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**MOTION**



# PAYLOAD MOUNTING PROVISIONS



DETAIL A  
SCALE 1 : 2



**H2W Technologies, Inc.**  
 Santa Clarita, CA 91350 USA  
 Tel: (661) 291-1620  
[www.h2wtech.com](http://www.h2wtech.com)

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UNLESS SPECIFIED OTHERWISE:  
 All dimensions are in inches  
 Standard Tolerances are as follows  
 .XXX ±.005 ANGLES ±.1°  
 .XX ±.010 FILLETS .010  
 .X ±.020 CORNERS .010  
 Remove All Burrs and Sharp Edges

**FOR  
REFERENCE  
ONLY**

MATERIAL

FINISH

TITLE

Air Bearing Positioning Stage Model #:  
**ABS-012-12-030-X**

DWG #

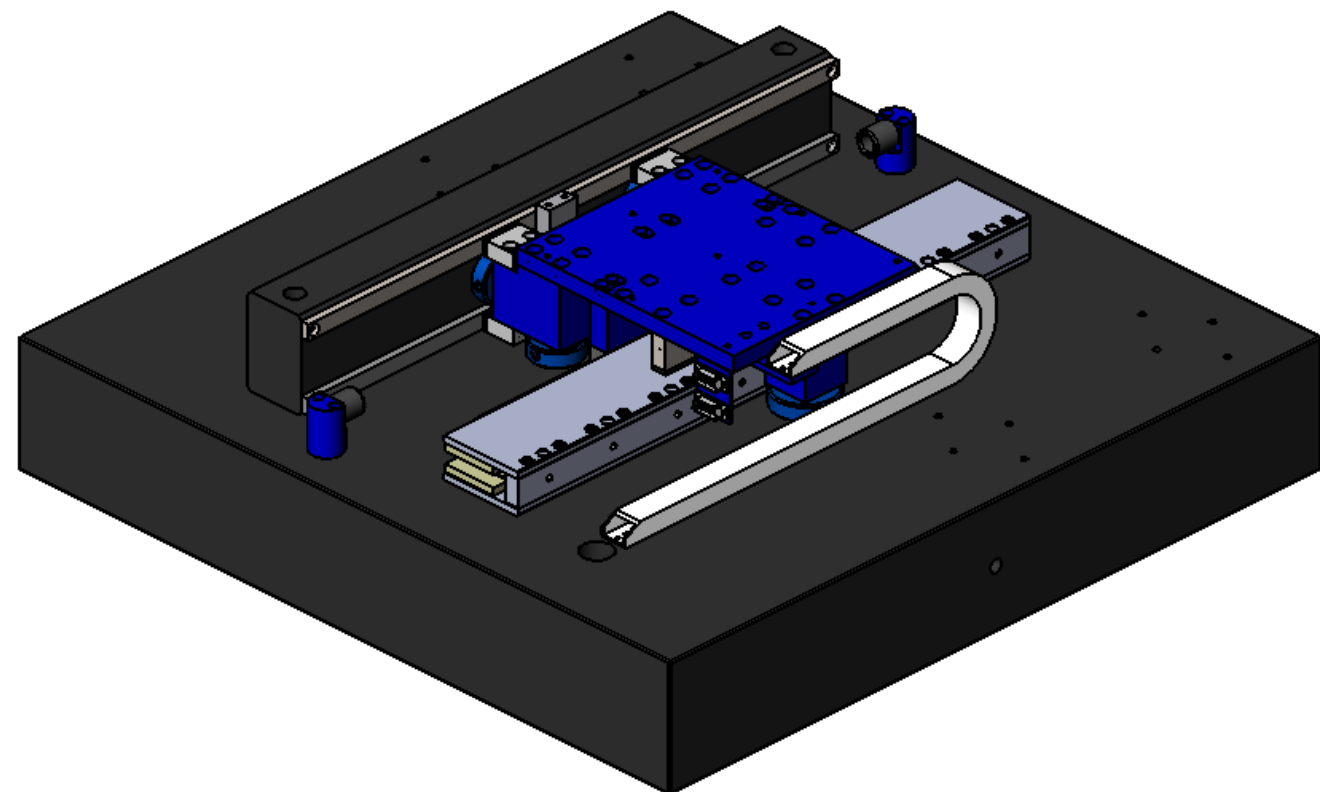
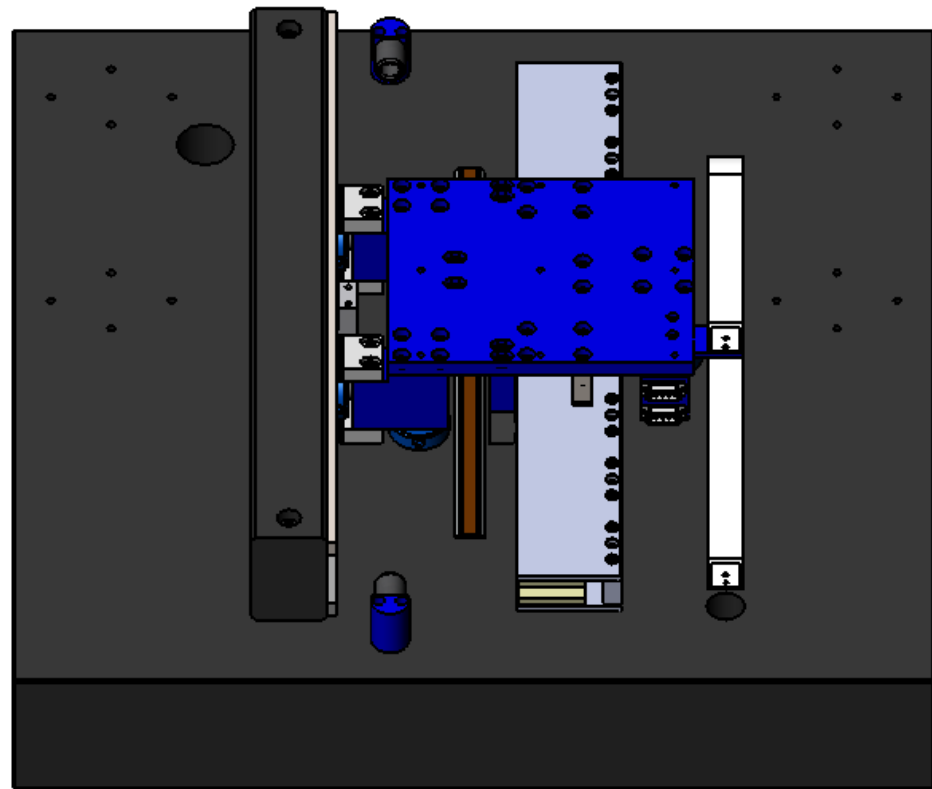
**43-0167**

REV

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DATE  
10-18-13

SHEET  
2 of 3



### AIR BEARING POSITIONING STAGE SPECIFICATIONS

Motor P/N	BLD-PB5-NC-W1	
Stroke	12.25"	311.15 mm
Encoder Resolution	1 micron	
Bearing Type	Air Bearing	
Moving Mass	17 lbs	7.7 kg
Total Mass	275 lbs	124 kg
Resistance @ 25C	37.0 ohms	
Inductance @ 25C	8.54 mH	
Motor Constant	2.4 LBS/SQRT(Watt)	10.6 N/SQRT(Watt)
Force Constant	14.5 LBS/A Peak	64.3 N/A Peak
Back EMF	1.38 V/ips	53.8 V/m/sec
Continuous Force	29 LBS	129 N
Power @ 100% Duty	147 Watts	
Peak Force	87 LBS	387 N
Power @ 10% Duty	1323 Watts	

A

A

B

B

C

C

D

D



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Air Bearing Positioning Stage Model #:  
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DWG #

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REV

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DATE  
10-18-13SHEET  
3 of 3