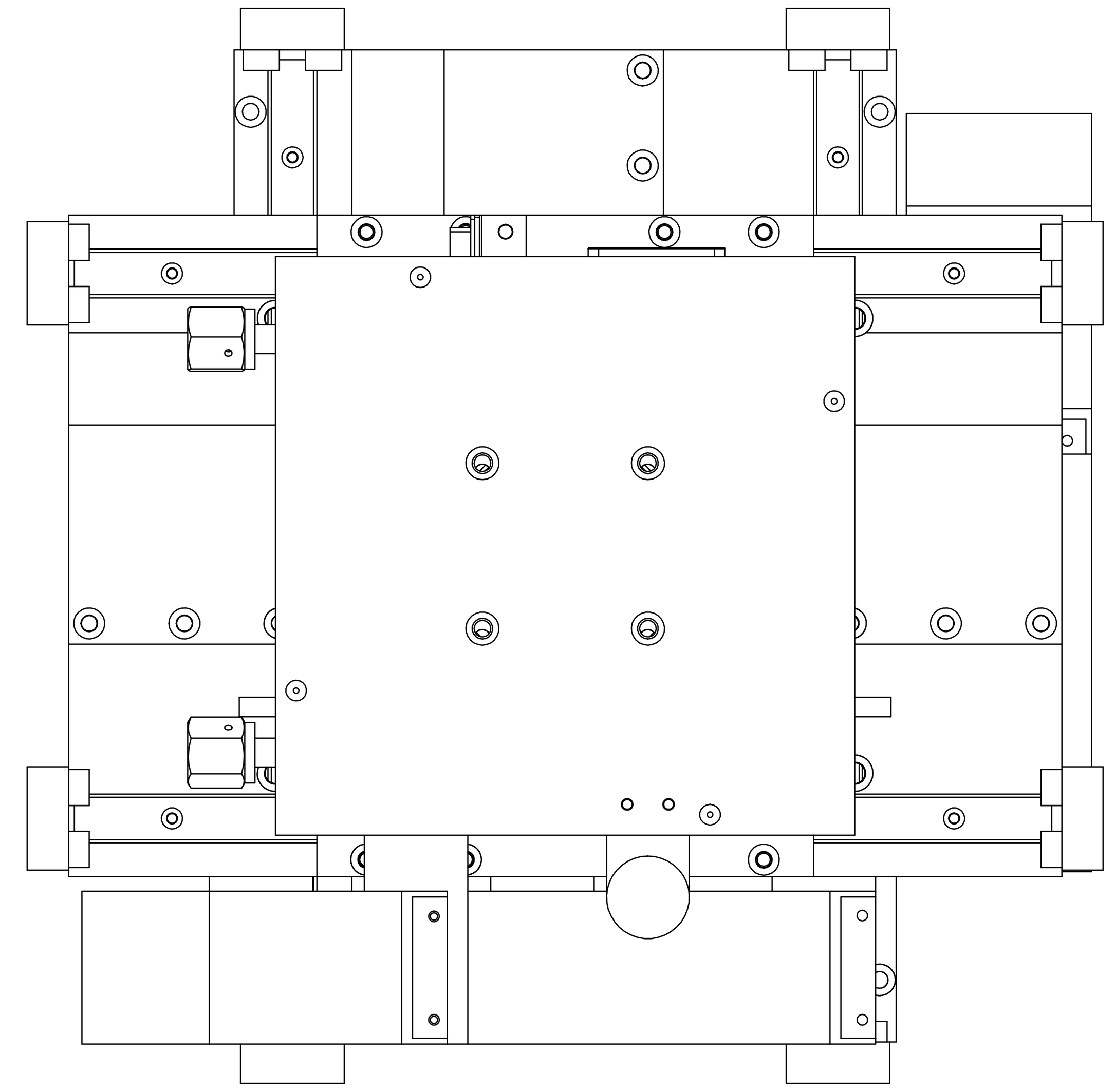
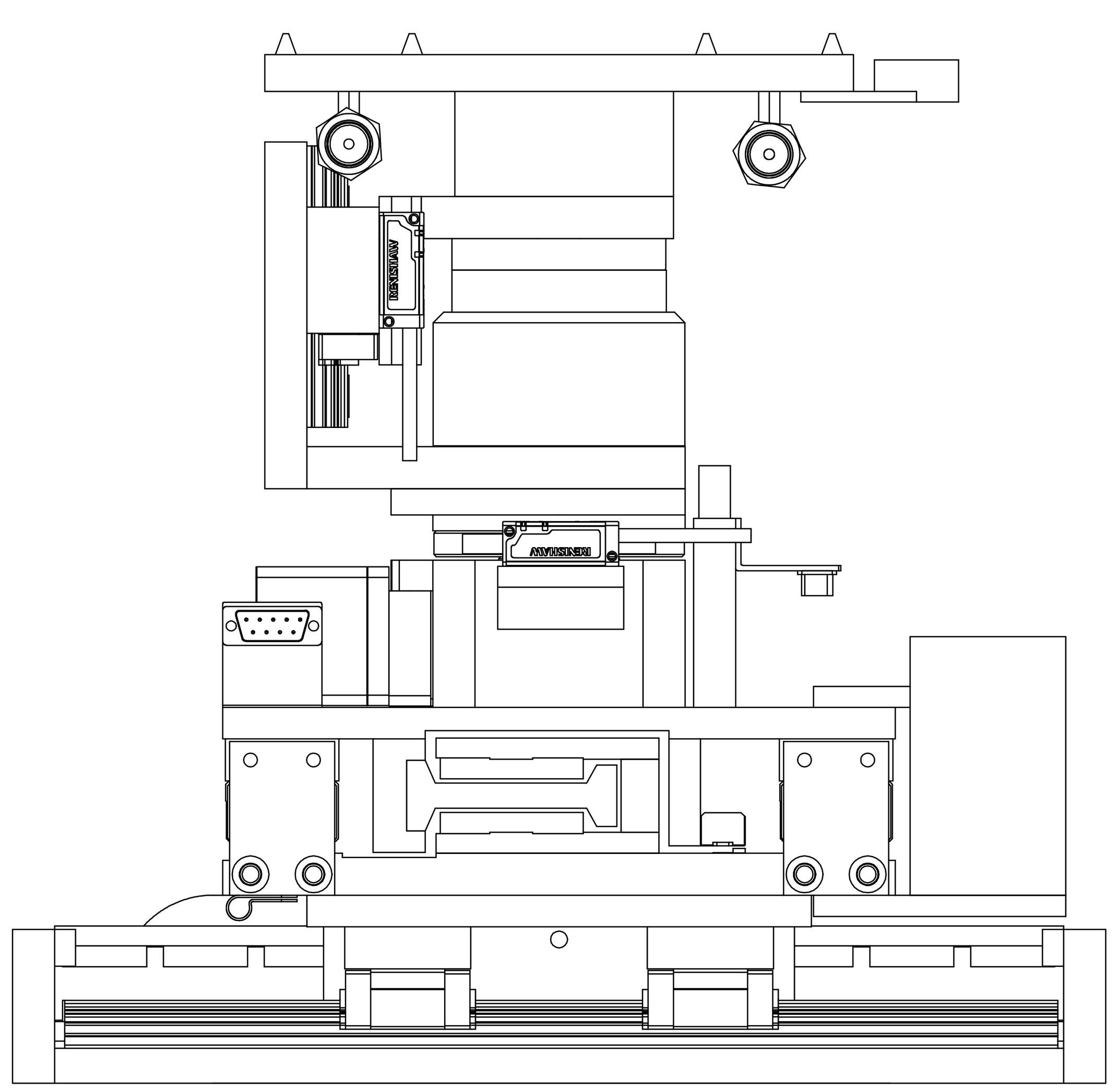
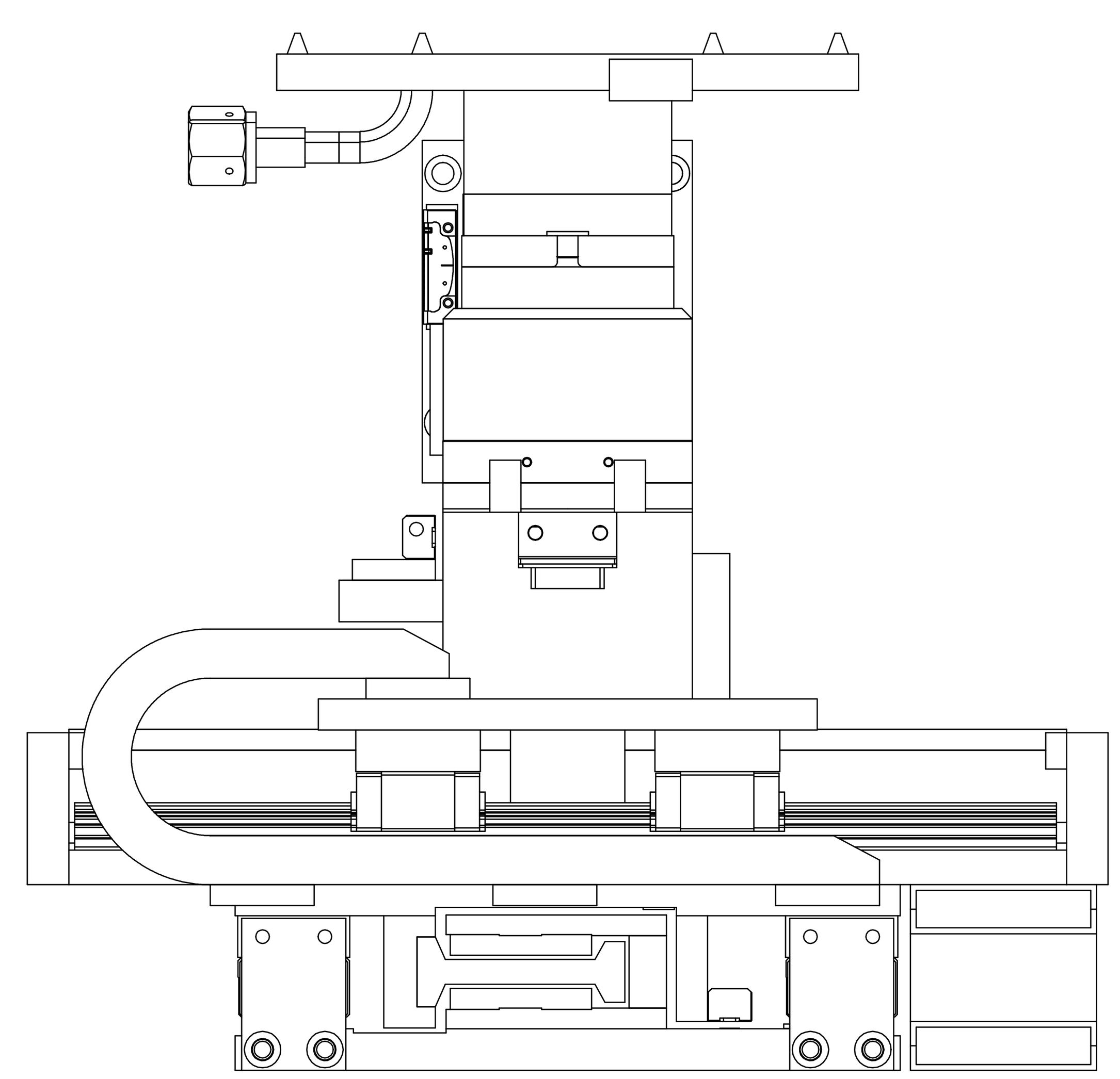
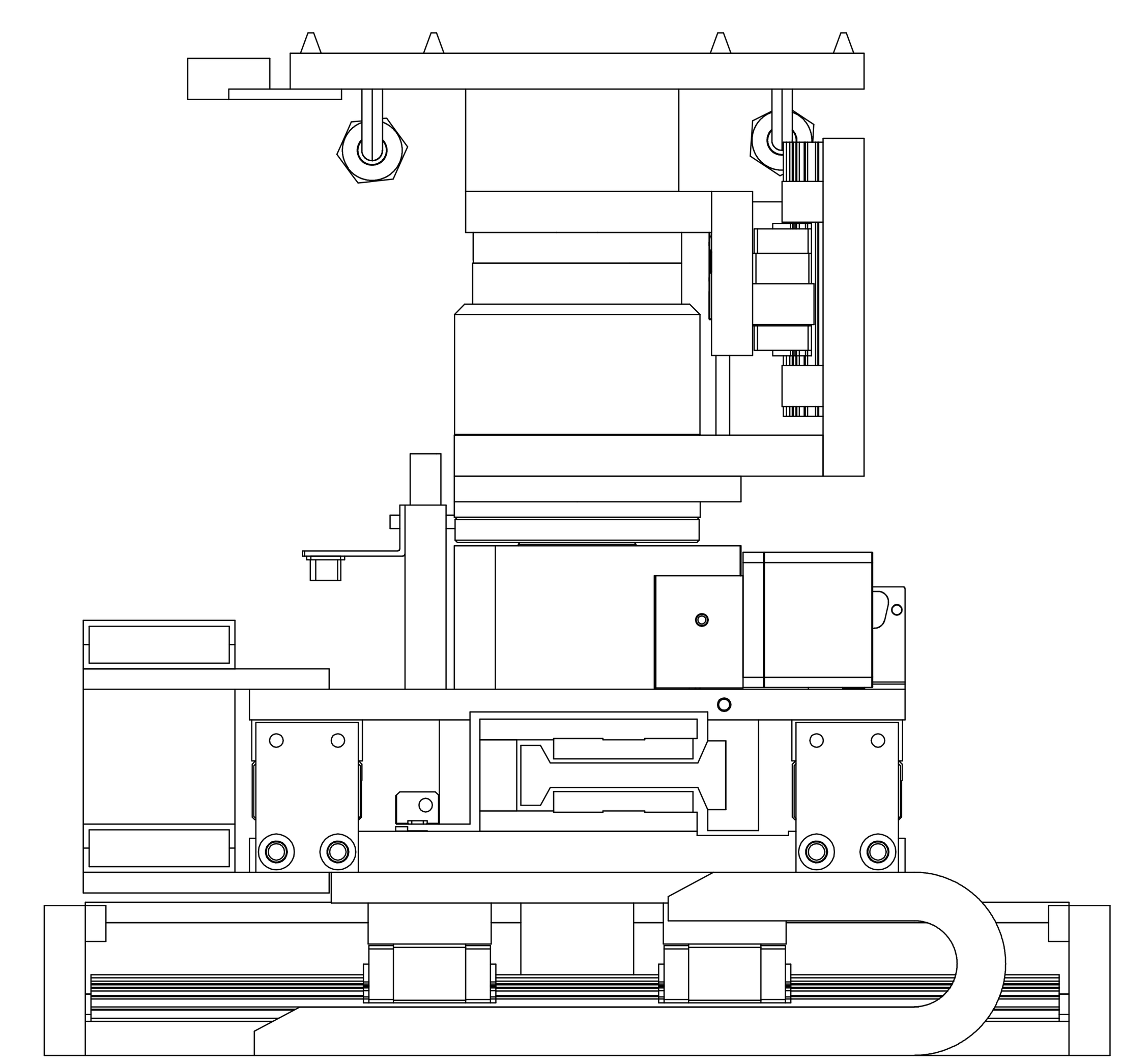
REVISION TABLE					
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	OOG	MPW	4-15-13









NOTES:
1. System is shown with customer supplied Substrate Holder
2. All axis shown at mid-stroke
3. All parts will be bare aluminum for vacuum compatibility. No anodize will be added to parts. Color shown on drawing is for illustration purposes

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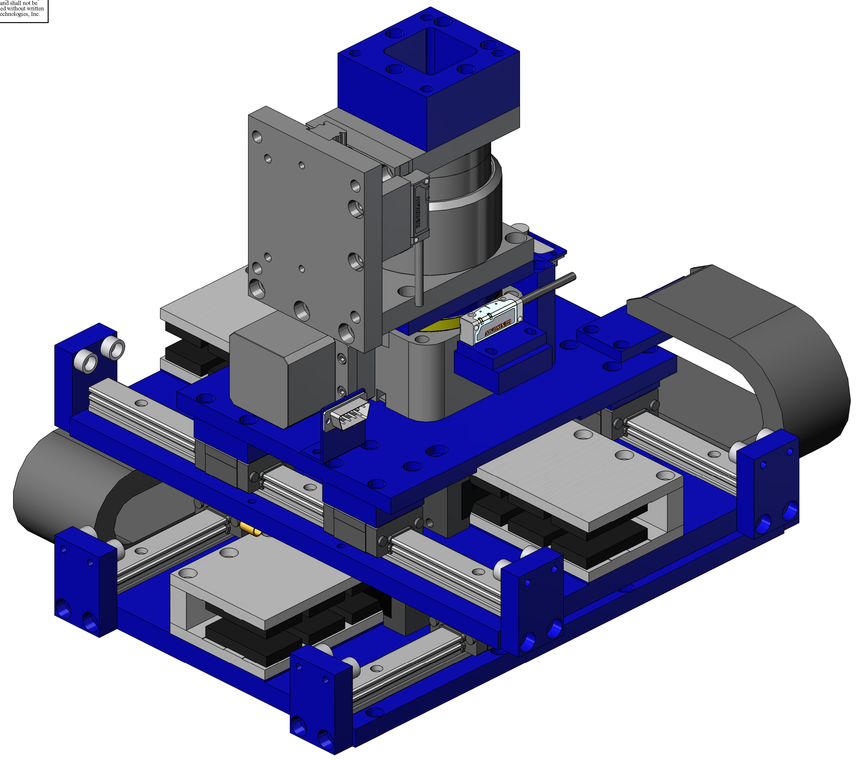
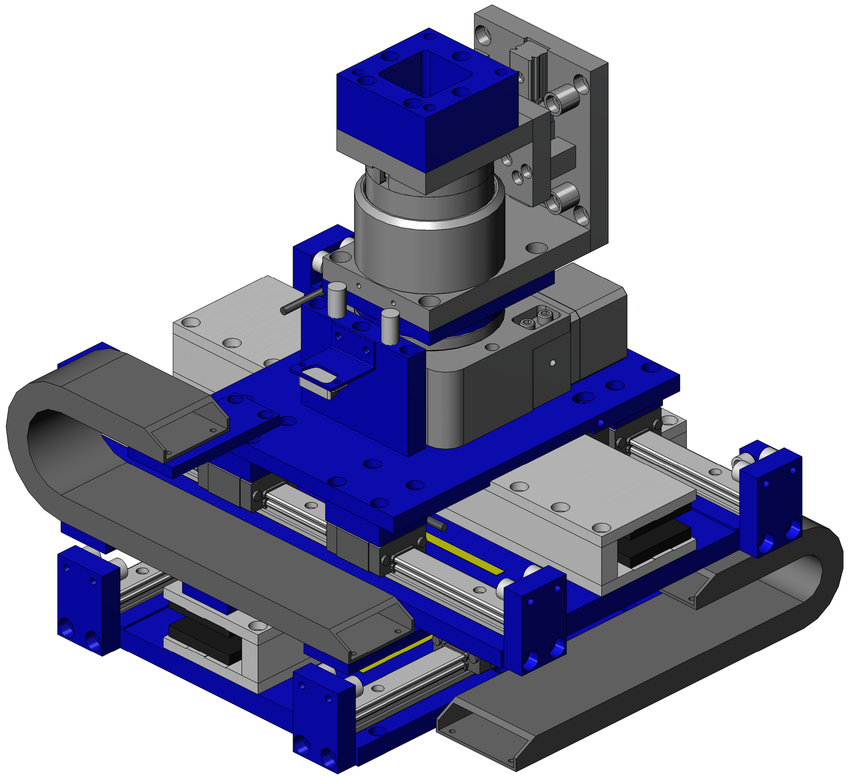
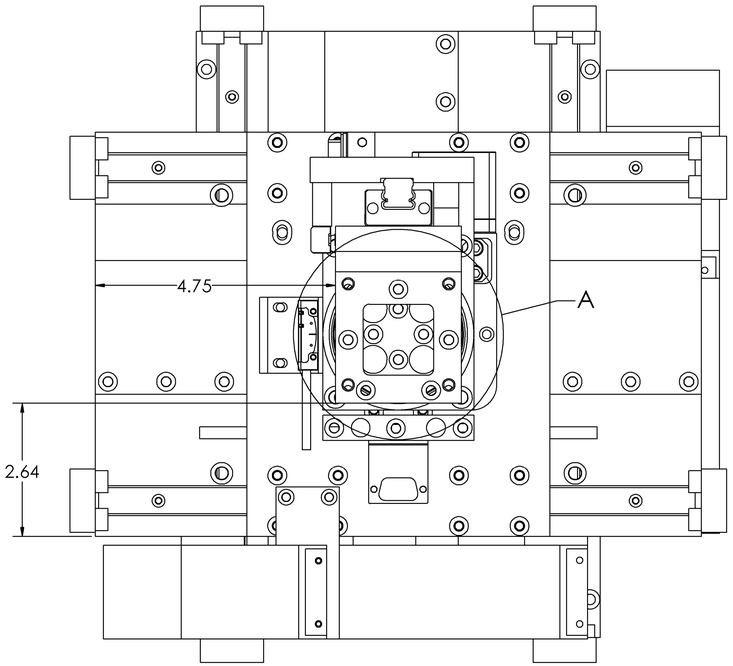
UNLESS SPECIFIED OTHERWISE:
All dimensions are in inches
Standard Tolerances are as follows
.XXX ±.005 ANGLES ±1°
.XX ±.010 FILLETS AND
.X ±.020 CORNERS .010
Remove All Burrs and Sharp Edges

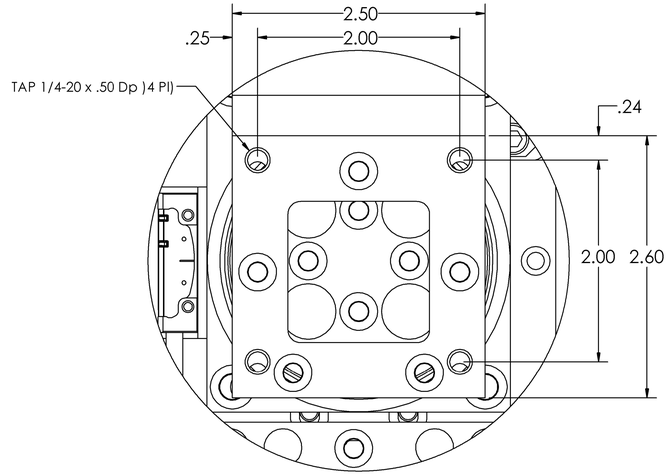
MATERIAL	Aluminum 6061-T6
FINISH	NONE
DRAWN	OOG
DATE	4-15-13
APPROVED	MPW
DATE	4-15-13
TITLE	**XYZ Theta Gantry (Vacuum Compatible)**
DWG #	**47-0040**
REV	**A**
SHEET	1 of 5





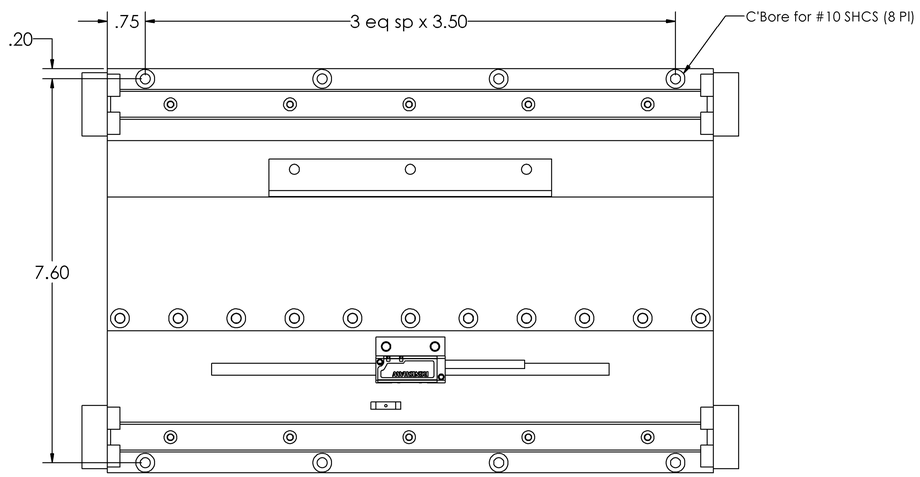


SUBSTRATE MOUNTING
Parts have been hidden to show mounting holes



DETAIL A
SCALE 2 : 1.5

STAGE MOUNTING
Parts have been hidden to show mounting holes



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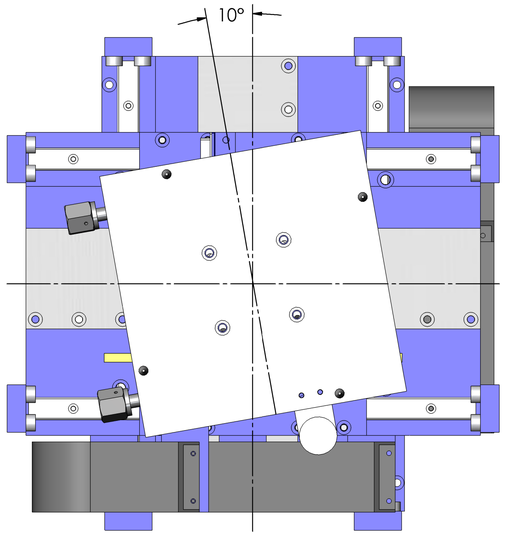
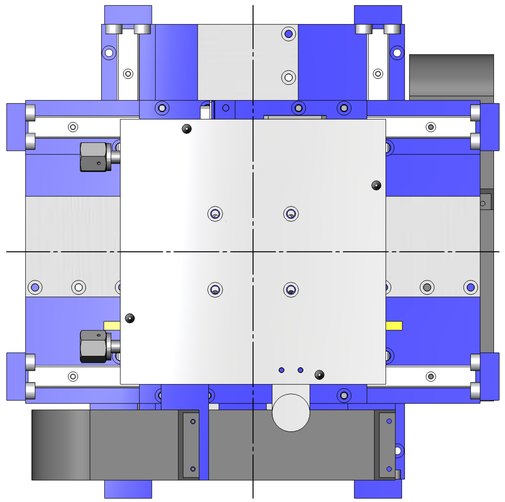
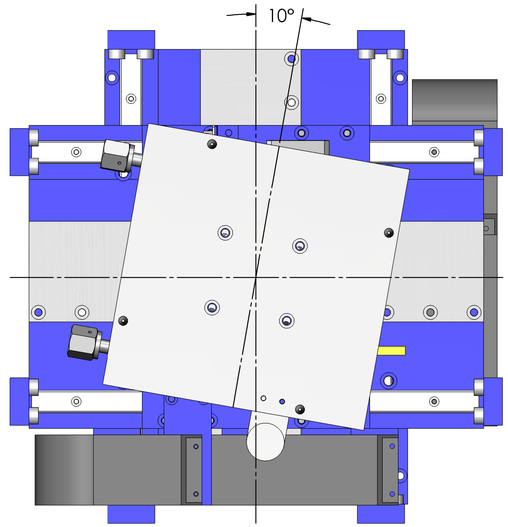
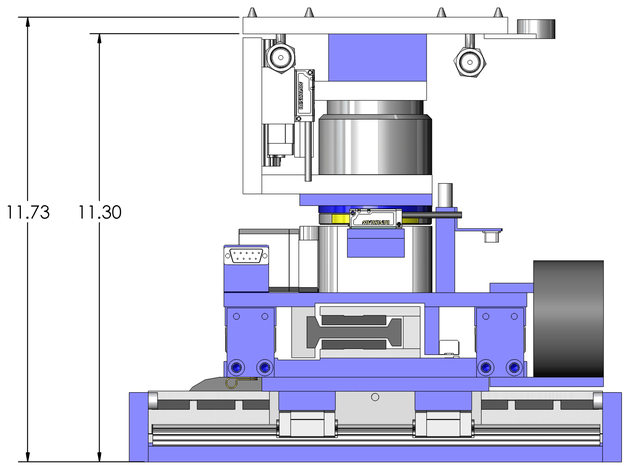
TITLE		
XYZ Theta Gantry (Vacuum Compatible)		
DRG # **47-0040**	REV **A**	SHEET 2 of 3

ROTARY DISPLACEMENT









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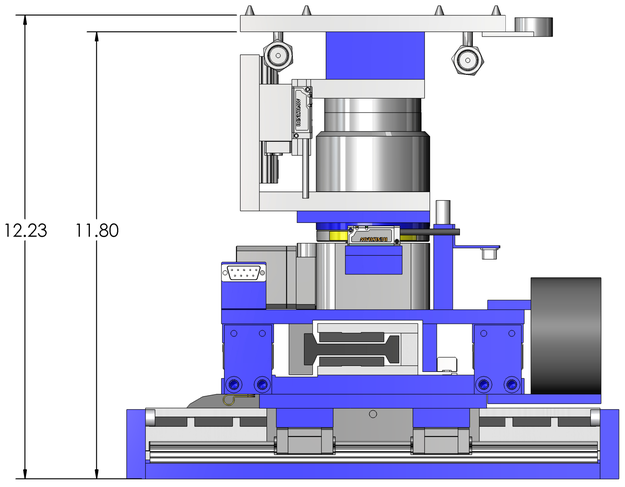

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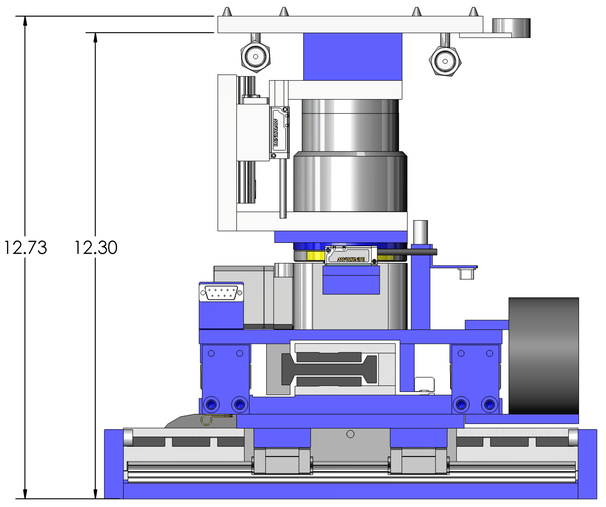

EXTENDED

STAGE HEIGHT

NOTES:
1. System is shown with customer supplied Substrate Holder

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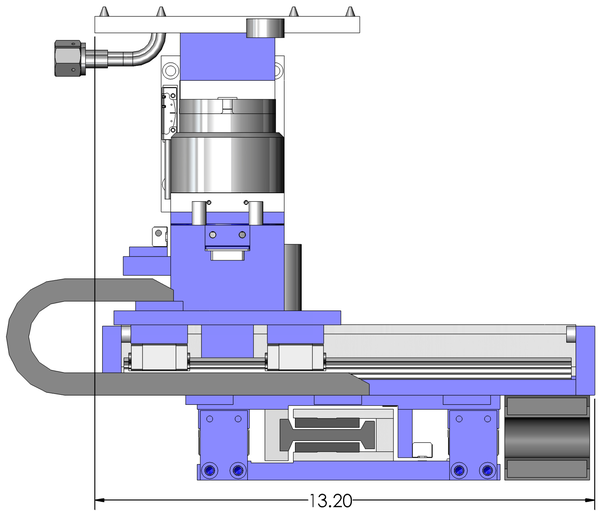
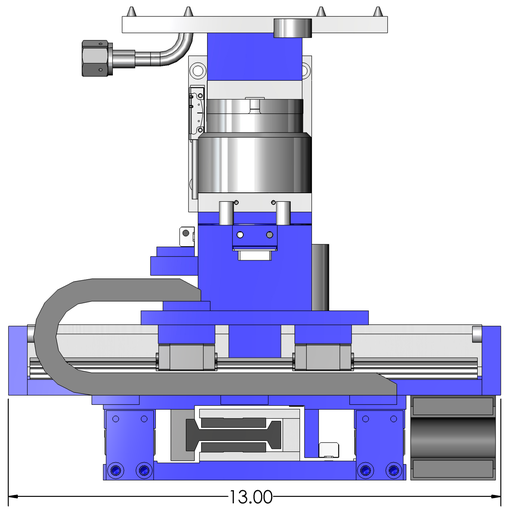
TITLE	
XYZ Theta Gantry (Vacuum Compatible)	
DRWG # 47-0040	REV A
SHEET 3 of 5	

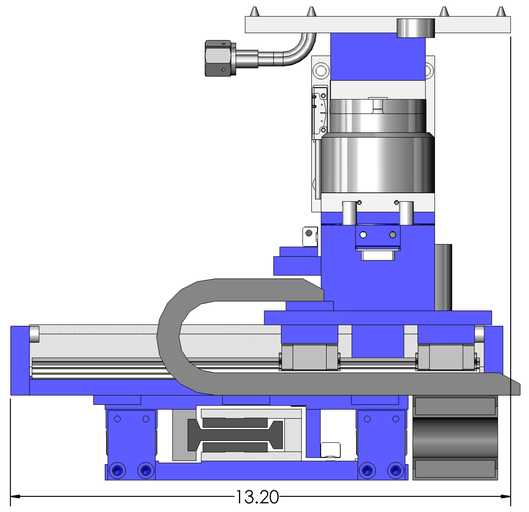
TOP AXIS



EXTENDED



CENTERED



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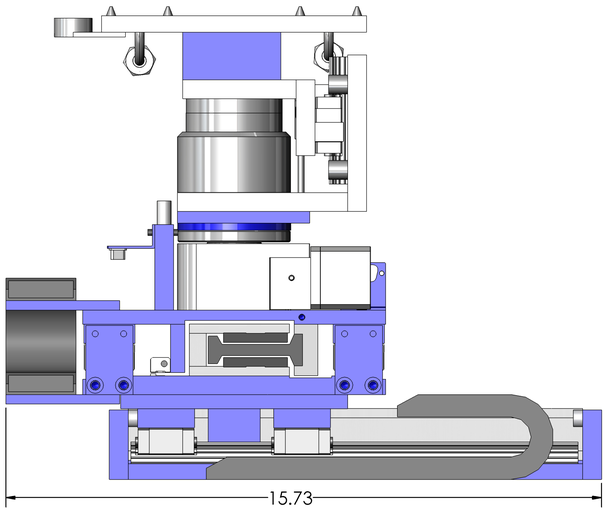

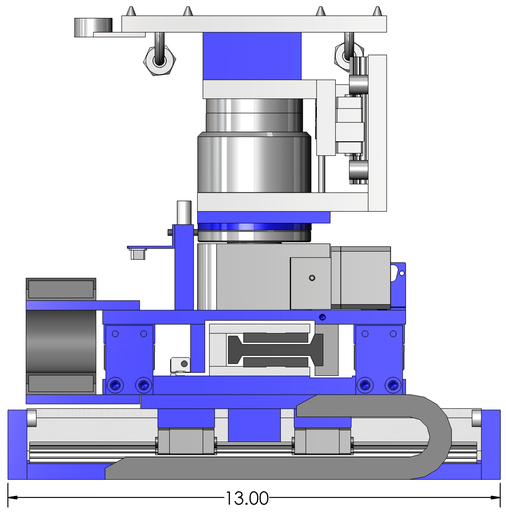

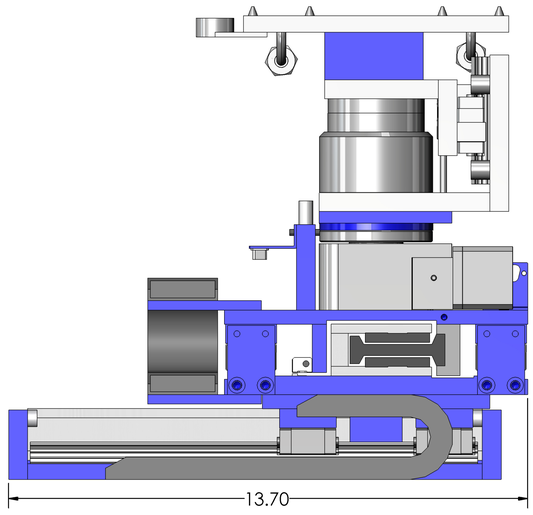

BOTTOM AXIS

NOTES:
1. Top Axis - Cable carrier will extend about 3in past the edge of the stage when fully extended
2. Bottom Axis - Cable carrier will extend about 3in past the edge of the stage when fully retracted
3. System is shown with customer supplied Substrate Holder

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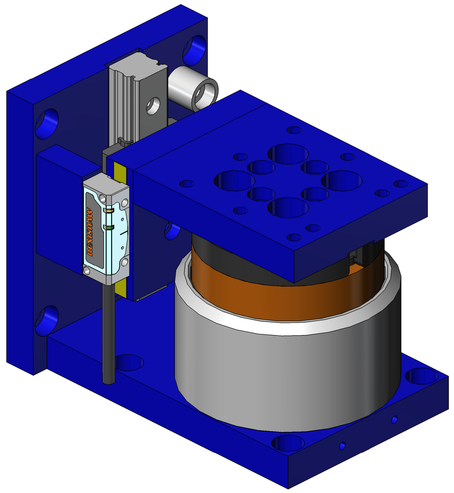
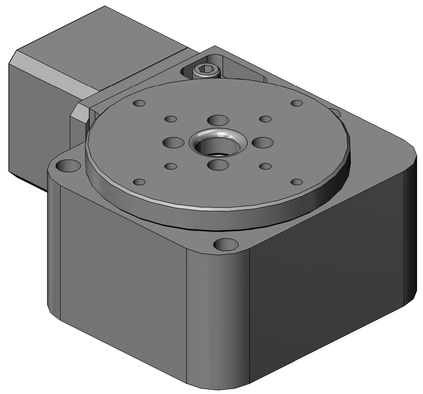
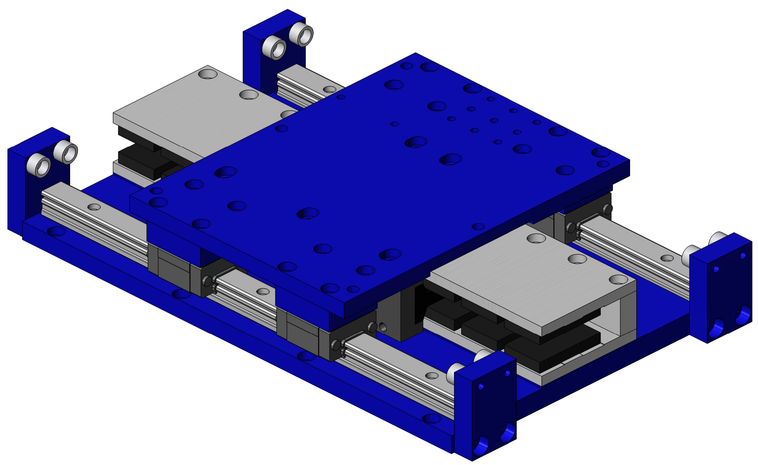
TITLE		
XYZ Theta Gantry (Vacuum Compatible)		
DRWG # 47-0040	REV A	SHEET 4 of 5



Vertical (Voice Coil Stage)
Stroke = 1.0in
Cont. Force = 10.8lbs
Peak Force = 32.4lbs @ 10% Duty
Encoder = 0.2 micron



Rotary (Stepper Stage)
Stroke = +/-10°
Encoder = 0.2 micron



XY Horizontal Axis (Brushless Linear Stage)
Stroke = 6.2in
Cont. Force = 20lbs
Peak Force = 60lbs
Encoder = 0.2 micron

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TITLE: **XYZ Theta Gantry (Vacuum Compatible)**

DRWG # **47-0040** | REV **A** | SHEET 5 of 5