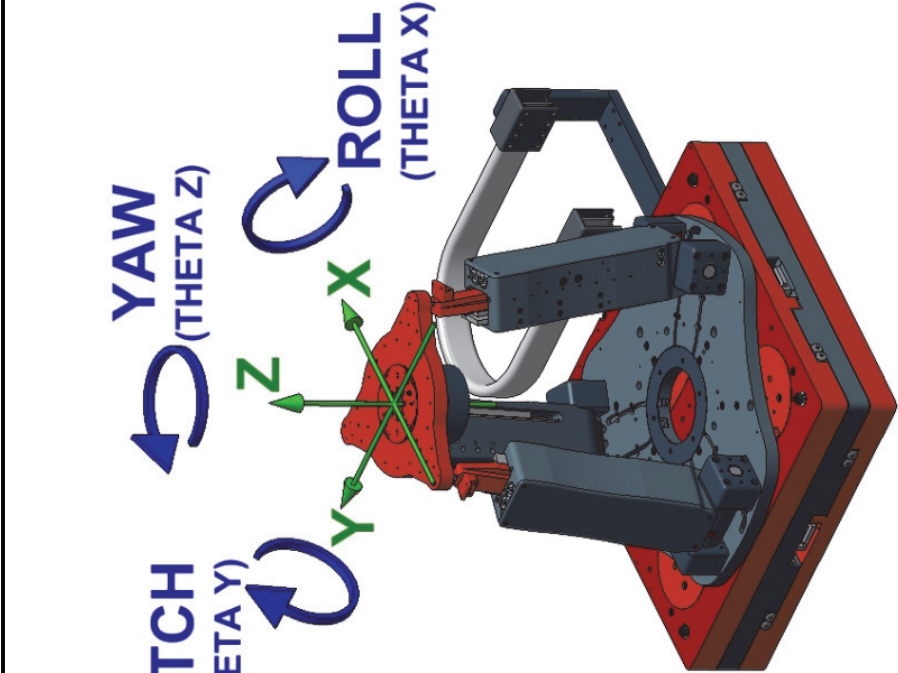
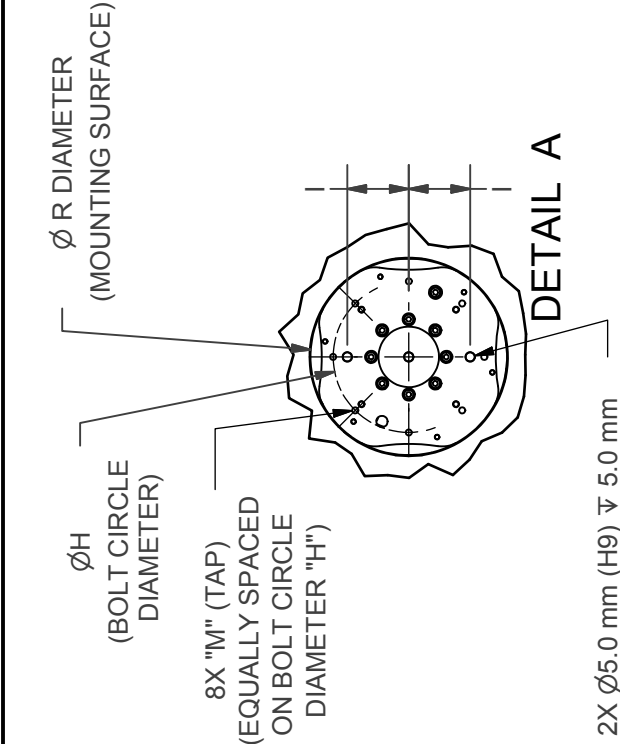
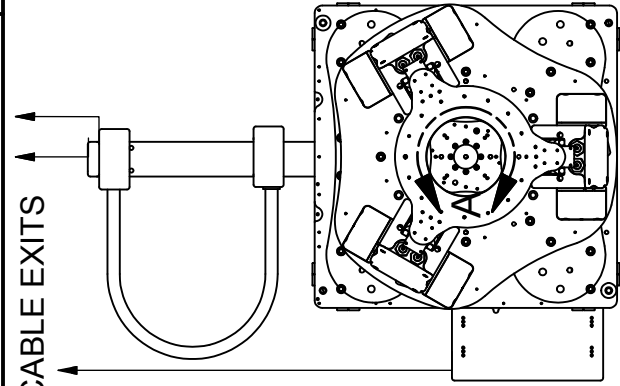
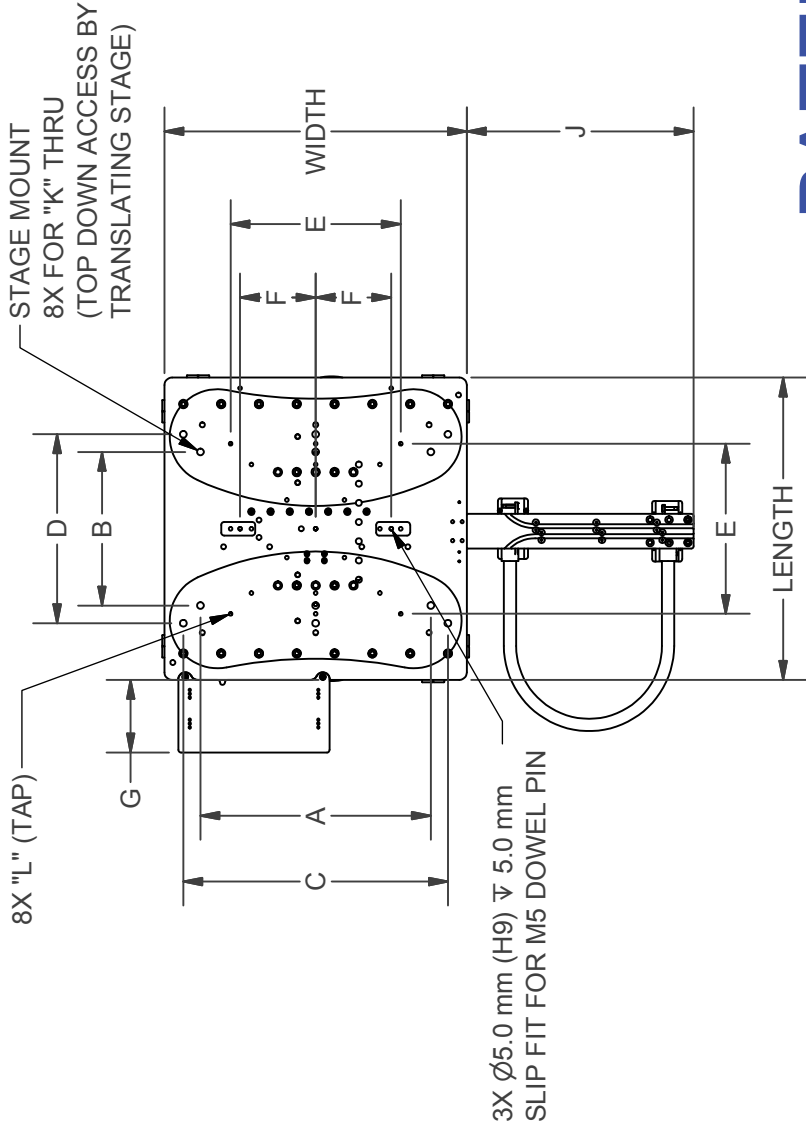
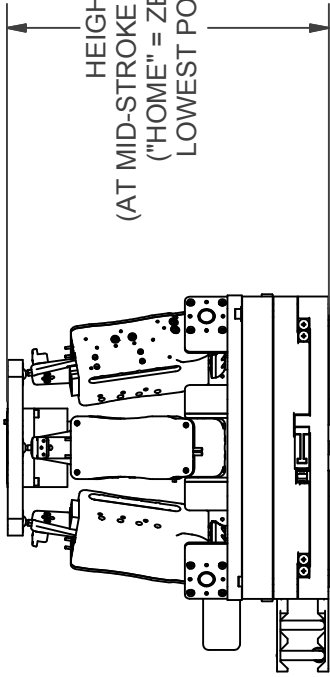




STANDARD FEATURES	
Stage	Hybrid Hexapod
Travel	6 Degrees of Freedom (X, Y, Z, Pitch, Roll, and Yaw)
XY Travel	100 - 300+ mm
Z Travel	6 - 106 mm
Angular Travel	+/- 3 to +/- 18 degrees (Pitch and Roll)
	360 degrees continuous (Yaw)
Max Payload	2.0 - 7.0+ kg
Motor	Ironless Core Linear Motor and Frameless Torque Motor
Feedback	Non-Contact Optical Encoder
Scale	Gold Tape Scale and Stainless Steel Ring
	Optional: Near Zero CTE ZeroMet
Linear Resolution	~5 nm
Angular Resolution	< 0.04 arc-sec
Sensors	Integrated Home and End of Travel Limits
Bearings	High Precision Crossed Roller Bearings
Counterbalance	Frictionless Pneumatic Cylinder
	Optional: Non-Contact Magnetic Spring
Cables	High Flex, 10M Cycle, 3m Length
Structure	Anodized Aluminum 6061-T6
	Optional: Stainless Steel
Environment	Standard
	Optional: Vacuum 10-5 Torr, Vacuum 10-7 Torr
Temperature	0°C to 50°C
Humidity	10% to 80% Non-Condensing
Precision	6-D Nano Precision™ Test Methods



XY TRAVEL	Z TRAVEL	PITCH & ROLL TRAVEL	R DIAMETER	OPTION	LENGTH	WIDTH	HEIGHT (at home)	HEIGHT (at mid-stroke)	A (inch)	B (inch)	C	D	E	F	G	H	I	J	K	L	M
100	6	+/- 3 degrees	56	--	244	244	220.5	223.5	6	6	175	125	170	70	52	30	22.5#	235	M6 or 1/4-20	M6	M3
100	6	+/- 3 degrees	56	CM	200	184	200.5	203.5	6	4	125	100	120	70	52	30	22.5#	235	M6 or 1/4-20	M5 (6X)	M3
100	24	+/- 11 degrees	56	--	244	244	233.8	245.8	6	6	175	125	170	70	52	30	22.5#	235	M6 or 1/4-20	M6	M3
100	24	+/- 10 degrees	56	CM, MS	262.5	246	218.8	230.8	6	4	125	100	120	70	52	30	22.5#	235	M6 or 1/4-20	M5 (6X)	M3
100	24	+/- 10 degrees	56	MS	262.5	246	238.8	250.8	6	6	175	125	170	70	52	30	22.5#	235	M6 or 1/4-20	M6	M3
150	40	+/- 16 degrees	56	--	331.6	304	306.5	328.5	6	6	175	125	170	70	52	30	22.5#	235	M6 or 1/4-20	M6	M3
200	40	+/- 11 degrees	104	--	399	359	318.9	340.9	7	5	225	200	225	100	65	80	32.5	235	M8 or 5/16-18	M6	M4
250	55	+/- 15 degrees	104	--	403.1	400	397.4	425.4	12	8	350	250	275x300	100	96	80	32.5	300	M8 or 5/16-18	M8 (6X)	M4
300	106	+/- 18 degrees	104	--	504.2	500	519.9	573.9	12	8	350	250	275x300	100	96	80	32.5	325	M8 or 5/16-18	M8 (6X)	M4

* All units millimeters unless otherwise noted.
* All hole patterns centered on M5 dowel pin at center of XY stage or centered on thru hole of top rotary stage.
* See specification sheet and contact ALIO technical sales for assistance in model selection.
M5 dowel pins on the mount surface are rotated 90 degrees relative to dowel pins shown on this datasheet.

ALIO INDUSTRIES PROPRIETARY INFORMATION
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DRAWN	5/12/2012	ALIO 6-D	
NBROWN			
CHECKED			
Tolerances: Surface Roughness: x.x ± .05 in [1.3 mm] x.xx ± .01 in [0.25 mm] x.xxx ± .005 in [0.13 mm] Angles ± 0.5°		TITLE HYBRID HEXAPOD® MODEL: AI-HH-(XY TRAVEL)XY-(Z TRAVEL)Z -(R DIAMETER)R-(OPTION)	
MATERIAL		SIZE	REV
		B	004
FINISH		DWG NO	
SEE NOTES		0010-08007	
		ALIO STD TEMPLATE - REV 006	1 OF 1
		SCALE	1

PATENT PENDING

NOTE: MODEL AI-6D-250XY-55Z-104R SHOWN.