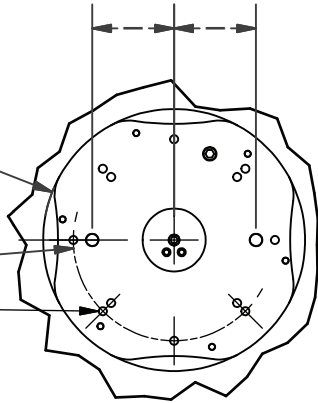
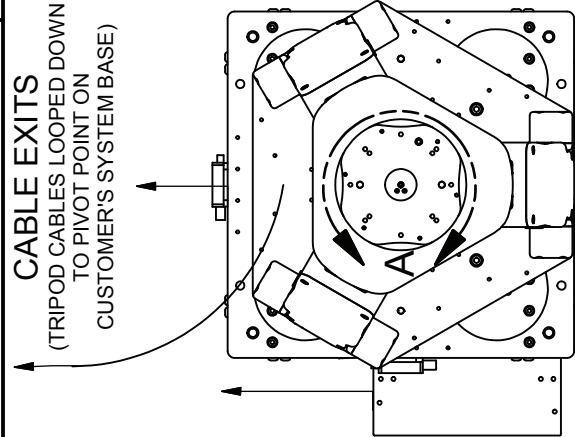
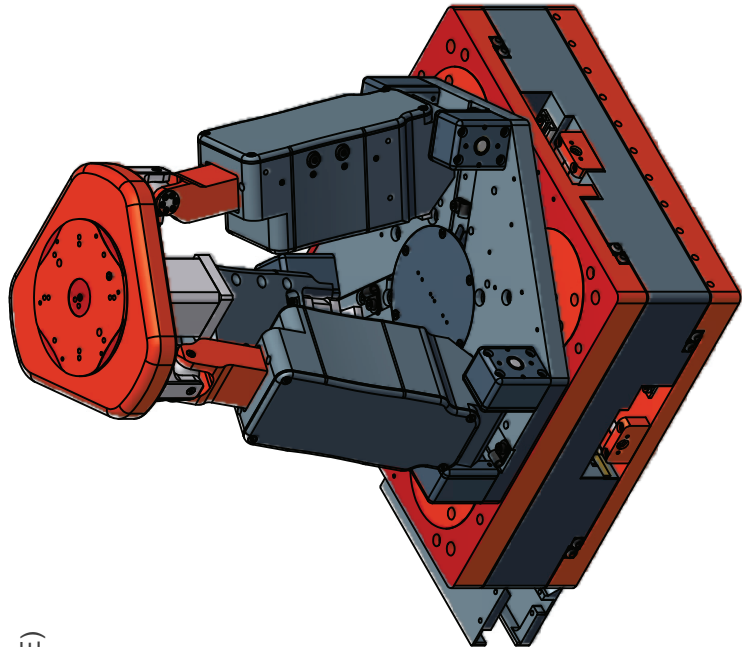
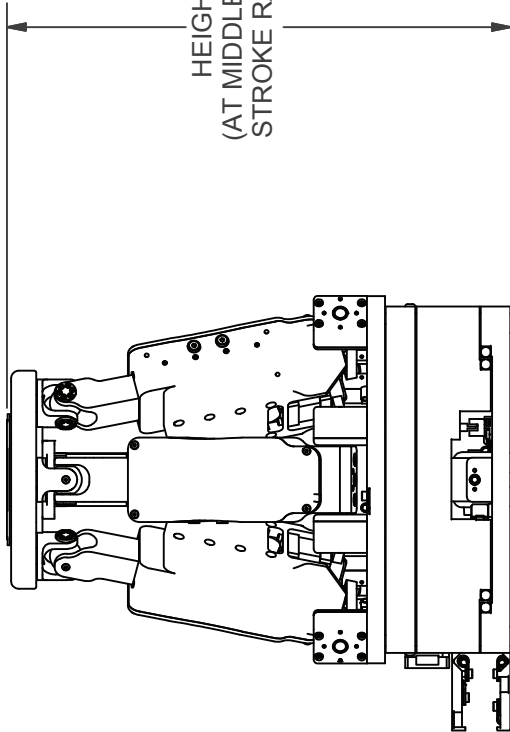




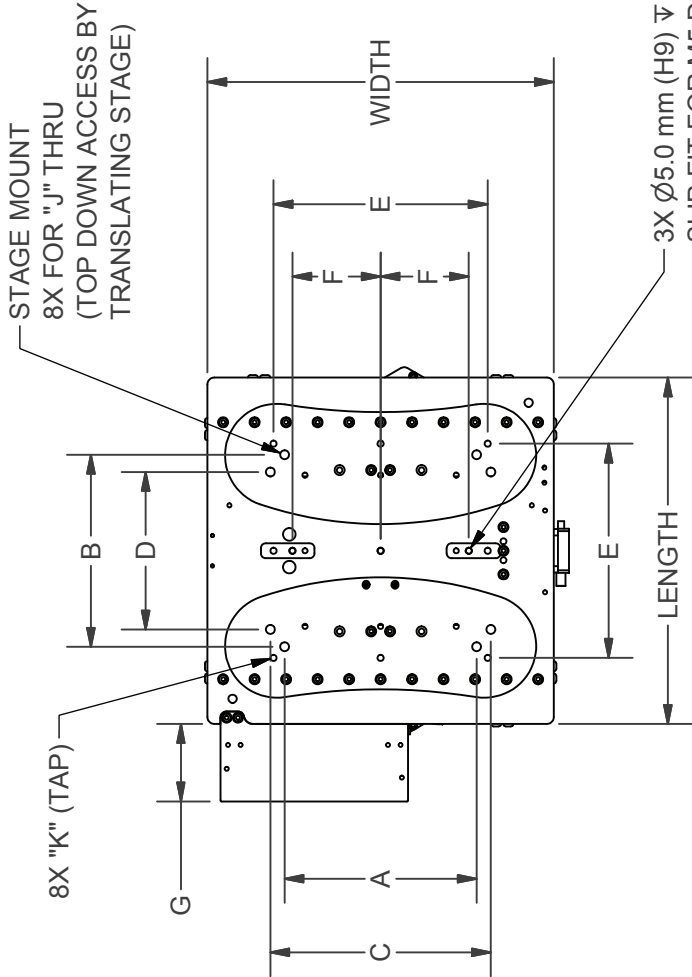
DETAIL A



STANDARD FEATURES	
Stage	Stepper Hybrid Hexapod
Travel	6 Degrees of Freedom (X, Y, Z, Pitch, Roll, and Yaw)
XY Travel	50 - 300+ mm
Z Travel	6 - 106+ mm
Angular Travel	+/- 3 to +/- 30 degrees (Pitch and Roll)
	360 degrees continuous (Yaw)
Max Payload	2.0 - 15.0+ kg
Motor	Stepper Motor
Feedback	Optional: Non-Contact Optical Linear Encoder Optional: Rotary Encoder (Integrated on Motor)
Scale	Gold Tape Scale and Stainless Steel Ring (Applies to Optical Encoder Option)
Linear Resolution	~5 nm
Angular Resolution	< 0.04 arc-sec
Sensors	Integrated Home and End of Travel Limits
Bearings	High Precision Crossed Roller Bearings
Cables	High Flex, 10M Cycle, 3m Length
Structure	Anodized Aluminum 6061-T6 Optional: Stainless Steel
Environment	Standard
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	MOTOR	OPTION	LENGTH	WIDTH	HEIGHT	A (inch)	B (inch)	C	D	E	F	G	H	I	J	K	L
200	60	+/- 30 degrees	104	14	--	292	275	400	6	6	175	125	170	70	62	80	32.5	M6 or 1/4-20	M6	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.



NOTE: MODEL AI-HH-ST14-200XY-60Z-104R SHOWN.

ALIO INDUSTRIES PROPRIETARY INFORMATION
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DRAWN NBROWN	5/12/2012	A	
CHECKED		A	
TITLE		AI-HH-ST(MOTOR)-(XY TRAVEL)XY -(Z TRAVEL)Z-(R DIAMETER)R -(OPTION)	
Tolerances: x.x ± .05 in [1.3 mm] x.xx ± .01 in [0.25 mm] x.xxx ± .005 in [0.13 mm] Angles ± 0.5°	Surface Roughness: ✓ RMS MAX.	A	
MATERIAL		SIZE B	DWG NO 0010-08037
FINISH SEE NOTES	SCALE	ALIO STD TEMPLATE - REV 006	SHEET 1 OF 1

REV
001