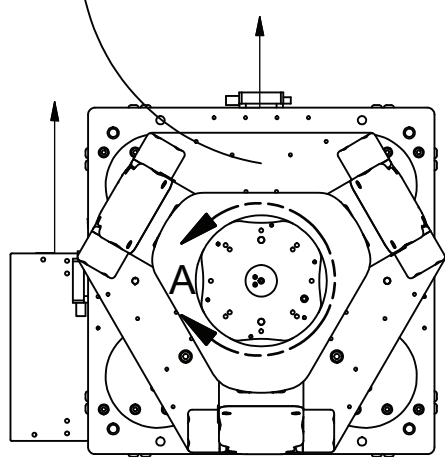




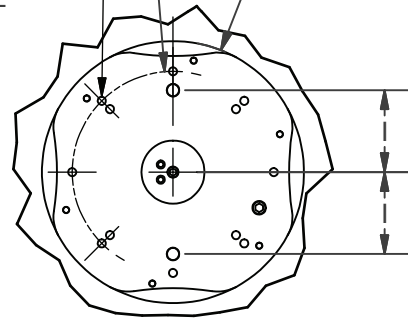
CABLE EXITS
(TRIPOD CABLES LOOPED DOWN
TO PIVOT POINT ON
CUSTOMER'S SYSTEM BASE)



8X "L" (TAP)
(EQUALLY SPACED
ON BOLT CIRCLE
DIAMETER "H")

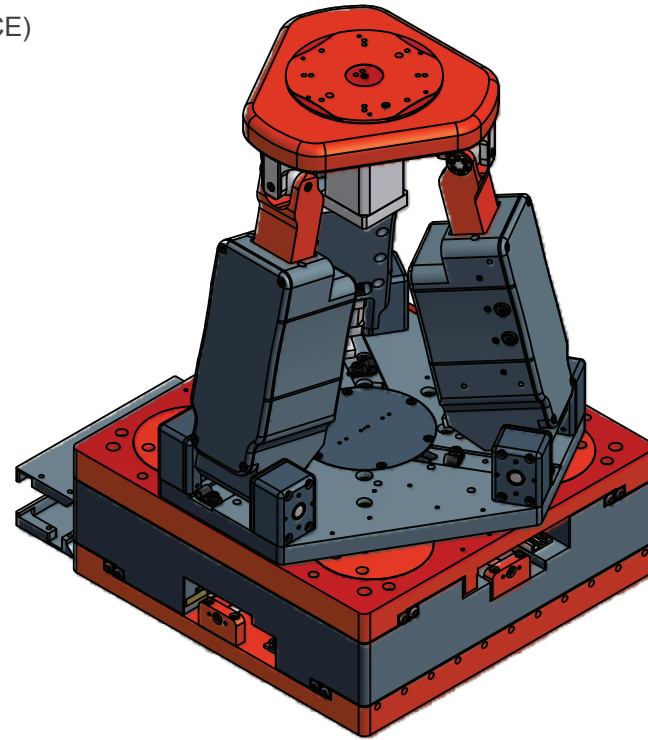
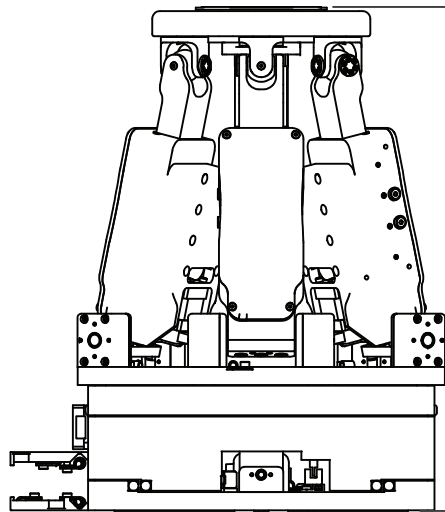
ØH
(BOLT CIRCLE
DIAMETER)

ØR DIAMETER
(MOUNTING SURFACE)



DETAIL A

HEIGHT
(AT MIDDLE OF Z
STROKE RANGE)



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

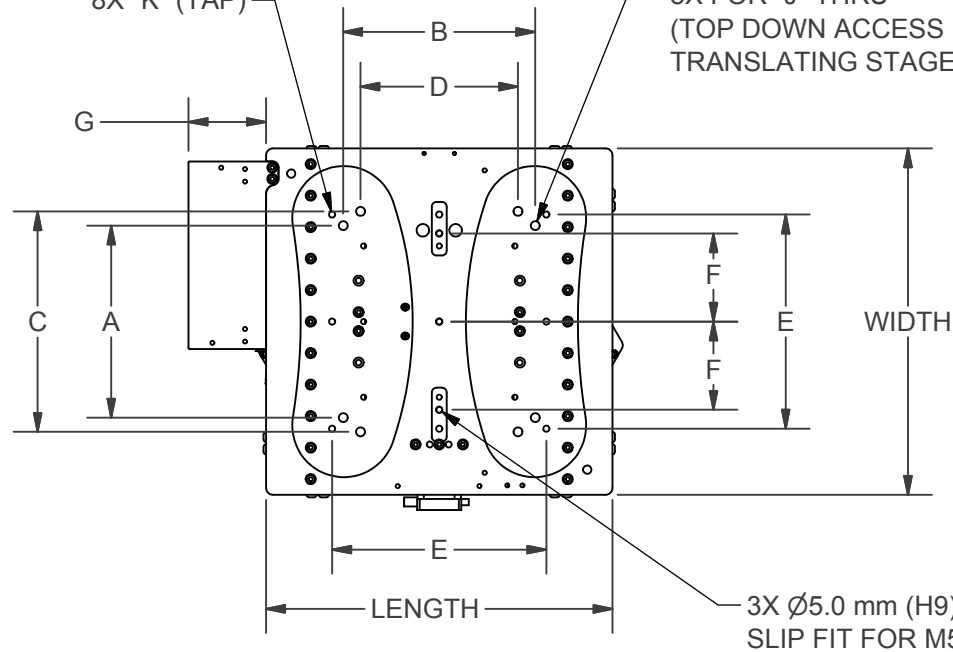
* All units millimeters unless otherwise noted.

* 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.

8X "K" (TAP)

STAGE MOUNT
8X FOR "J" THRU
(TOP DOWN ACCESS BY
TRANSLATING STAGE)



3X Ø5.0 mm (H9) ∇ 5.0 mm
SLIP FIT FOR M5 DOWEL PIN

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

ALIO INDUSTRIES PROPRIETARY INFORMATION
(Tel) 303.339.7500 - SALES@ALIOINDUSTRIES.COM - WWW.ALIOINDUSTRIES.COM

DRAWN NBROWN	5/12/2012				
CHECKED					
		TITLE AI-HH-ST(MOTOR)-(XY TRAVEL)XY -(Z TRAVEL)Z-(R DIAMETER)R -(OPTION)			
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°		RMS MAX. ✓			
MATERIAL		SIZE B	DWG NO 0010-08037		REV 001
FINISH SEE NOTES		SCALE	ALIO STD TEMPLATE - REV 006	SHEET 1	OF 1