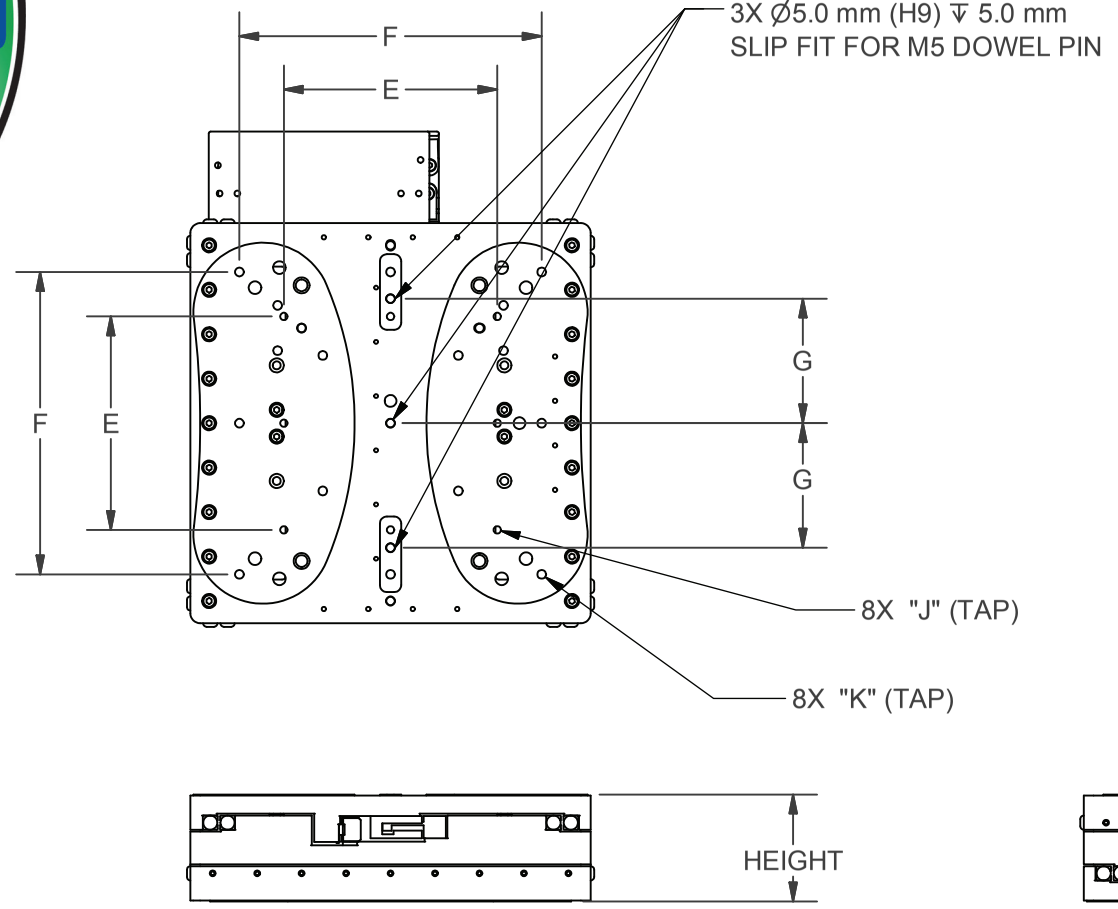
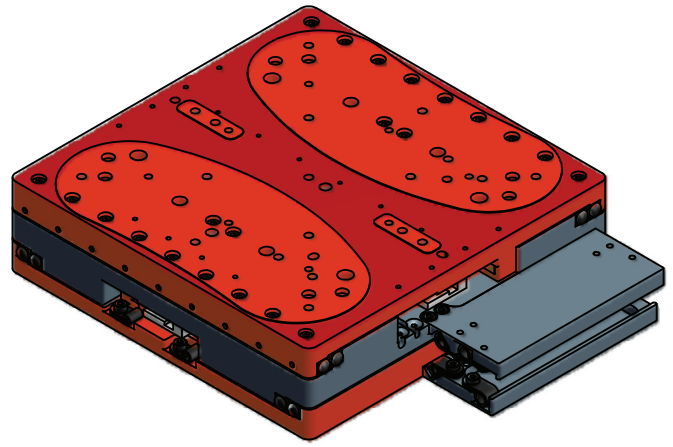
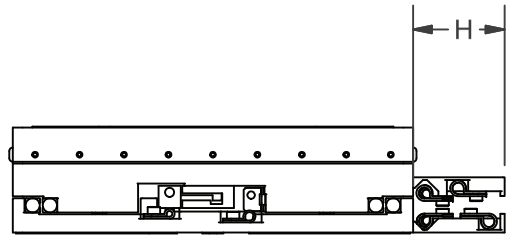
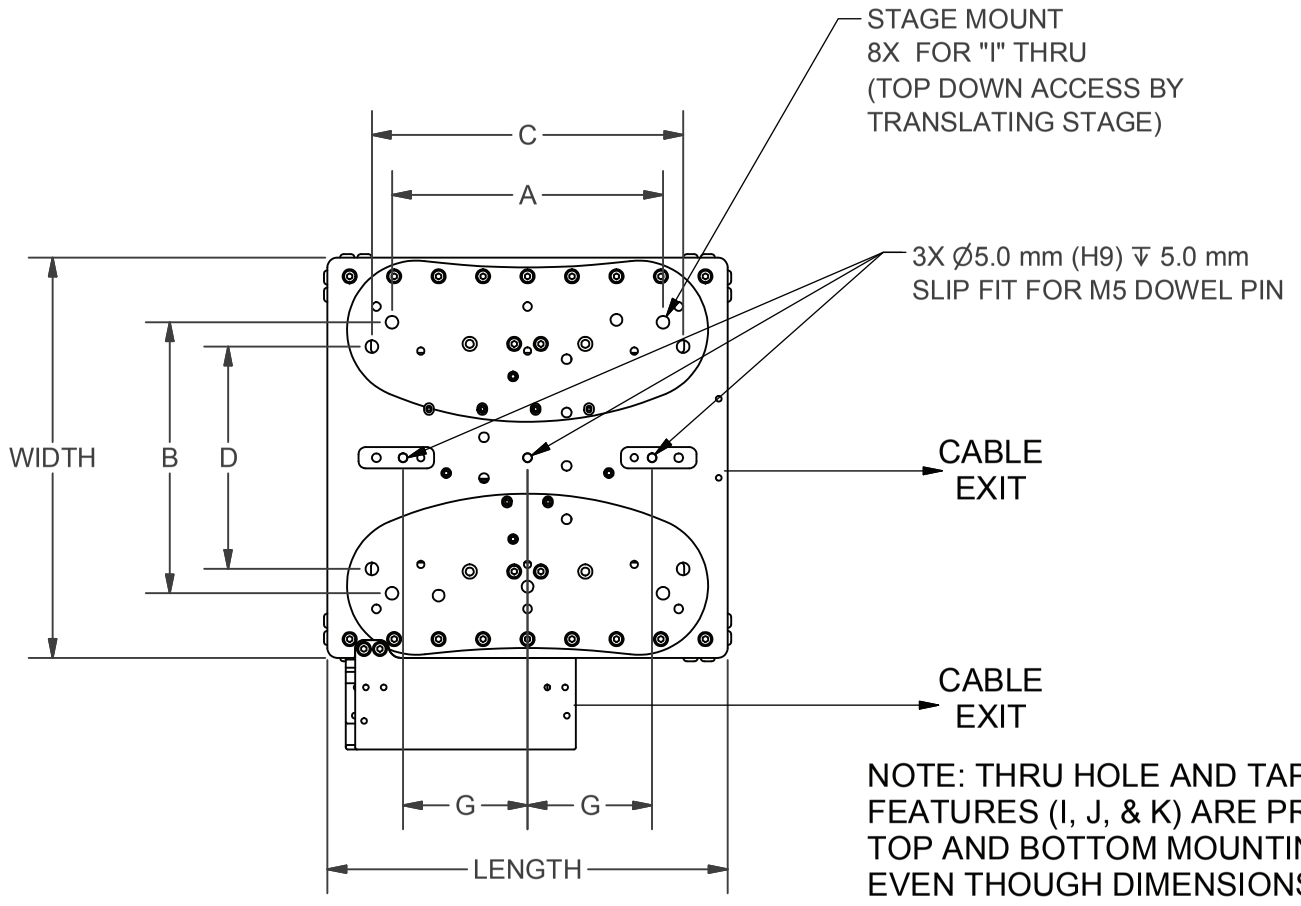






STANDARD FEATURES	
Stage	Integrated XY Stage
Travel	30mm to 200mm
Motor	Ironless Core Linear Motor
Feedback	Non-Contact Optical Encoder
Scale	Gold Tape Scale Optional: Near Zero CTE ZeroMet
Resolution	1Vp-p Analog Output (5nm with 4096 Interpolation) Digital Output Options: 5um, 1um, 0.5um, 0.2um, 100nm, 50nm, 20nm**, 10nm**, and 5nm** (** Reduced Speeds Apply)
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 Optional: Clean Room and Vacuum (10-6 Torr)
Temperature	0°C to 50°C
Humidity	10% to 80% Non-Condensing
Precision	6-D Nano Precision™ Test Methods



NOTE: MODEL AI-CM-15000-XY SHOWN.

TRAVEL	LENGTH	WIDTH	HEIGHT	A (inch)	B (inch)	C	D	E	F	G	H	I	J	K
30	112	112	50	n/a	n/a	80	42	46	60	35	n/a	M4	M4 (4X)	M5 (4X)
60	125	125	60	4	3	100	75	46	60	35	n/a	M6 or 1/4-20	M4 (4X)	M5 (4X)
100	184	184	60	6	4	125	100	46	120	70	52	M6 or 1/4-20	M4 (4X)	M5 (6X)
150	225	225	60	6	6	175	125	120	170	70	52	M6 or 1/4-20	M5	M6
200	275	275	60	6	6	175	125	120	170	70	62	M6 or 1/4-20	M5	M6

* All units millimeters unless otherwise noted.
* All hole patterns centered on M5 dowel pin hole at center of stage.

NOTE: THRU HOLE AND TAP MOUNTING FEATURES (I, J, & K) ARE PRESENT ON TOP AND BOTTOM MOUNTING SURFACES EVEN THOUGH DIMENSIONS ARE ONLY SHOWN ON ONE SURFACE.

ALIO INDUSTRIES PROPRIETARY INFORMATION
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DRAWN NBROWN 5/12/2012
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] √ RMS MAX.
Angles ± 0.5'
MATERIAL
FINISH SEE NOTES

ALIO 6-D

TITLE

AI-CM-(TRAVEL)00-XY

SIZE B | DWG NO 0010-08013 | REV 001
SCALE | ALIO STD TEMPLATE - REV 006 | SHEET 1 OF 1