



STANDARD FEATURES

Stage	Open Center Integrated XY Stage
Travel	100mm to 300mm
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 Optional: Cable Management Brackets ("-CAB")
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

TRAVEL	THRU	LENGTH	HEIGHT	A (inch)	B (inch)	C	D	E	F	G	H	I	J	K	L
100	100	230	64	5	3	150	75	201.5	214.5	120	70	129.25	N/A	M6 or 1/4-20	M5
150	150	326.5	68	7	5	200	100	258	267.5	170	100	177.5	52	M6 or 1/4-20	M6
200	200	392	80	11	7	300	150	360	379	225	125	212	65	M6 or 1/4-20	M6
250	250	460	95	11	7	300	150	428	447	275	150	246	96	M6 or 1/4-20	M6
300	300	500	120	16	12	400	350	500	520	325	150	250	98	M8 or 5/16-18	M6
350	350	550	120	16	12	400	350	550	550	375	200	275	98	M8 or 5/16-18	M6

* All units millimeters unless otherwise noted.

* All hole patterns centered on aperture centerline.

* Custom and intermediate sizes available.

* Travel less than 100mm available upon special request.

ALIO INDUSTRIES PROPRIETARY INFORMATION
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DRAWN	5/12/2012																
NBROWN																	
CHECKED																	
Tolerances: Surface Roughness: x.x ± .05 in [1.3 mm]		RMS MAX.		x.xx ± .01 in [0.25 mm]		x.xxx ± .005 in [0.13 mm]		Angles ± 0.5°		MATERIAL		FINISH		SCALE		REV	
TITLE													0010-08001		001		
SEE NOTES													ALIO STD TEMPLATE - REV.006		1 OF 1		

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

NOTE: MODEL AI-LM-15000E-150-XY SHOWN