



**STANDARD FEATURES**

<b>Stage</b>	Z Linear Stage with Magnetic Spring Counterbalance
<b>Travel</b>	50mm to 170mm
<b>Motor</b>	Ironless Core Linear Motor
<b>Feedback</b>	Non-Contact Optical Encoder
<b>Scale</b>	Gold Tape Scale Optional: Near Zero CTE ZeroMet
<b>Resolution</b>	1V/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)
<b>Sensors</b>	Integrated Home and End of Travel Limits
<b>Bearings</b>	High Precision Crossed Roller Bearings
<b>Counterbalance</b>	Constant Force Magnetic Spring Counterbalance
<b>Cables</b>	High Flex, 10M Cycle, 3m Length
<b>Structure</b>	Anodized Aluminum 6061-T6 Optional: Stainless Steel
<b>Environment</b>	Standard Optional: Clean Room
<b>Temperature</b>	0°C to 50°C
<b>Humidity</b>	10% to 80% Non-Condensing
<b>Precision</b>	6-D Nano Precision™ Test Methods

TRAVEL	PAYLOAD OPTIONS (NEWTONS)	LENGTH	WIDTH	HEIGHT	A (inch)	B (inch)	C	D	E	F	G	H	I	J
170	20N, 30N, 40, 50N, or 60N	262	50	340	13	3	80	100	50	75	100	70	M6 (8X)	M6

- \* All units millimeters unless otherwise noted.
- \* All hole patterns centered on M5 dowel pin hole at center of stage.
- \* All dimensions and visual representations reflect stage at mid-stroke or home position.
- \* Custom and larger sizes available.

DRAWN	11/20/2015	TITLE	
CHECKED	11/20/2015	AI-LM-(TRAVEL)00-(PAYLOAD) -Z-MCB-BASE	
Tolerances: Surface Roughness: x.x ± .05 in x.xx ± .01 in x.xxx ± .005 in ANGLES ± 0.5°		SIZE	REV
NBROWN		B	001
NBROWN		DWG NO	0010-08044
SEE NOTES		SCALE	ALIO STD TEMPLATE - REV 006
		SHEET	1 OF 1



ALIO INDUSTRIES PROPRIETARY DOCUMENT  
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NOTE: MODEL AI-LM-17000-XXN-Z-MCB-BASE SHOWN.