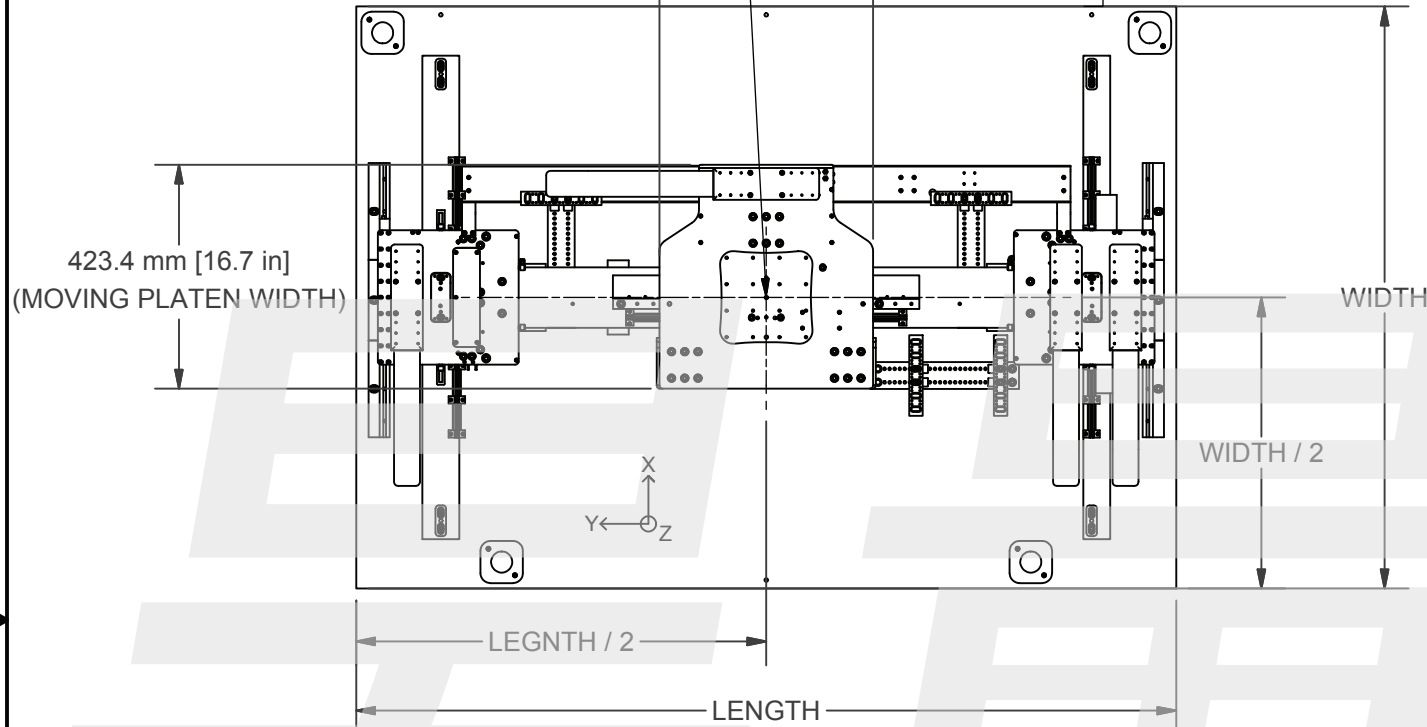
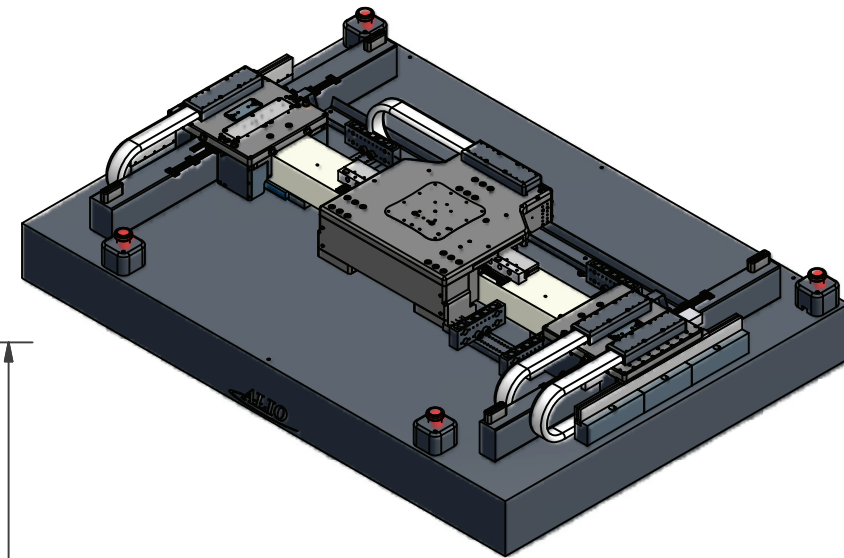




CENTER OF PLATEN MOUNTING SURFACE (MOUNTING FEATURES DEFINED PER CUSTOMER REQUIREMENTS)

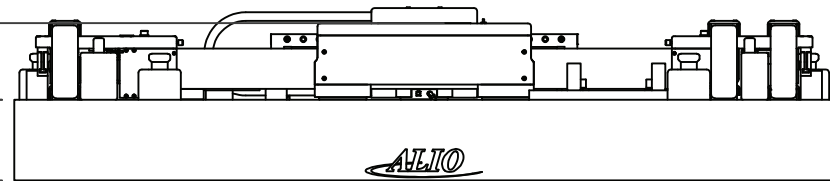
CABLE EXIT TYPICALLY REAR RIGHT CORNER FROM UNDERSIDE OF GRANITE (CUSTOMER CAN SPECIFY CABLE EXIT ON ANY SIDE OR CORNER)

404.00 mm [15.9 in] (MOVING PLATEN LENGTH)



5.709 [145 mm] GRANITE SURFACE TO MOUNTING SURFACE

152.40 mm [6.000 in] (VARIES PER APPLICATION AND TRAVEL REQUIREMENTS)



TRAVEL	LENGTH	WIDTH
200	1250	700
300	1350	800
400	1450	1000
500	1550	1100
600	1650	1200
800	1850	1400
1000	2050	1600

* All units millimeters unless otherwise noted.
* Custom and intermediate sizes available.

ALIO's Planar Air Bearing is Designed to be Easily Customizable to Meet Customer Specific Requirements	
Custom Platen L x W x H	
Custom X and/or Y Travel	
Custom User Mounting Interface Features	
Custom Platen Designs (Open Center Options)	
Custom Compact Designs for Small Footprint	
Customer Cable Routing	
Customizable Motor Forces	
Custom High Payload Options	
Custom Granite Features and Sizes	
Various Material Options Throughout	
Single Axis Versions Available (Y Axis Only)	
Various Support and Vibration Isolation Options	
Various Safety System Options	
Various Control Chassis Options	

STANDARD FEATURES	
Stage	XY Planar Air Bearing Stage
Travel	200mm to 1000+mm
Yaw Travel	Optional: +/- 0.1 deg
Max Payload	Standard: 20 kg Optional: 80+ kg (Higher Payload Options Available)
Motor	Ironless Core Linear Motor
Feedback	Non-Contact Optical Encoder
Scale	Near Zero CTE ZeroMet Optional: Zero CTE Zerodur
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	Porous Media Air Bearings
Air Supply	ISO Class
Cables	High Flex, 10M Cycle, Trackless Cable Routing Optional: Customer/Payload Cable Routing Available
Structure	Anodized Aluminum 6061-T6 Optional: Steel or Stainless Steel
Base Structure	Precision Lapped Black Granite
Environment	Standard (Optional: Clean Room)
Temperature	0°C to 50°C
Humidity	10% to 80% Non-Condensing
Precision	6-D Nano Precision™ Test Methods
Accuracy	< +/- 0.5 um
Repeatability	< +/- 100 nm
Straightness	< +/- 0.5 um
Flatness	< +/- 1 um

ALIO INDUSTRIES PROPRIETARY INFORMATION
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DRAWN	NBROWN	5/12/2012	TITLE	
CHECKED			AI-LM-(TRAVEL)00-ABL	
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°			SIZE	REV
MATERIAL			B	001
FINISH SEE NOTES			DWG NO	0010-08030
SCALE			ALIO STD TEMPLATE REV 006 SHEET	1

NOTE: MODEL AI-LM-50000-ABL SHOWN