



STANDARD FEATURES

- MOTOR: IRONLESS CORE LINEAR MOTOR
- FORCE CONSTANT: 8.9 N/AMP
- PEAK FORCE: 84 N
- TRAVEL: 400mm
- SPEED: > 1 m/sec
- ENCODER RESOLUTION: ANALOG 1 VOLT, PEAK TO PEAK
- 5nm RESOLUTION WITH 4096x INTERPOLATION
- OPTIONAL: 5um, 1um, 0.5um, 0.1um, 0.05um, AND 0.02um
- SYSTEM REPEATABILITY: +/- 2 ENCODER COUNTS (CONTROLLER DEPENDENT)
- HOME SENSOR: STANDARD
- LIMIT SWITCH: STANDARD (@ +/- 203.5 mm) (CONSULT FACTORY FOR CUSTOM PLACEMENT)
- HARD STOP: STANDARD
- BEARINGS: PRECISION RECIRCULATING BALL RAIL
- BEARING DYNAMIC LOAD RATING: 10.7kN
- MATERIALS: ALUMINUM 6061-T6
- STAINLESS STEEL OPTIONAL
- ENVIRONMENT: STANDARD, CLEAN ROOM, VACUUM
- 10e-6 TORR (CONSULT FACTORY)
- TEMPERATURE: 0 to 100 DEG C
- HUMIDITY: 10% to 80% NON-CONDENSING
- ASSEMBLY MASS: 6.9 kg
- MOVING MASS: 0.68 kg

ACCESSORIES

- MOTOR AMPLIFIER
- DIGITAL ENCODER INTERPOLATOR

OPTIONAL EQUIPMENT

- MOTION CONTROLLERS
- CUSTOM DESIGNS FOR OEM INTEGRATION

**CARRIAGE MOUNTING
DETAIL A**

ALIO INDUSTRIES PROPRIETARY INFORMATION

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DRAWN	NBROWN	5/3/2006
CHECKED		
Tolerances:	Surface Roughness:	
x.x ± .04 in	√ RMS MAX.	
x.xx ± .01 in		
x.xxx ± .005 in		
MATERIAL		
FINISH	SEE NOTES	

TITLE		
AI-LMR-40000		
SIZE	DWG NO	REV
B	0010-00783	001
SCALE	ALIO STD TEMPLATE - REV 005	SHEET 1 OF 1