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TECHNOLOGY GROUP

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LMB™ Stage



Dover Motion

(800) 227-1066

sales@dovermotion.com

www.dovermotion.com

Features

: : Precision crossed roller ways for high stiffness.

: : Center-driven leadscrew design is only 2.5” high

: : Wide range of travels - from 2” to 12”

: : Precision ball screw

: : Ideal for vertical applications

Description

The LMB stage takes our standard LM™ stage and upgrades it in several ways. First and most importantly the enhancement adds a precision ground preloaded ball screw inside the same cross section. The added ball screw increases axial stiffness and the preloaded nature allows linear encoders to be used in servo applications.

Duty cycle, life, and speed are also greatly improved with this upgrade. Leads are available in 2 and 5mm standard sizes. A larger thrust bearing is also used to increase axial load carrying capabilities These enhancements make this stage ideal to be used in vertical applications.

Optional inline brakes are available to prevent the stage from back driving. The LMB ball screw driven stage has also added pinch cover design, eliminating any safety concerns. Travels are available from 2 to 10 inches.

Specifications

Specifications		LMB-200	LMB-400	LMB-600	LMB-800	LMB-1000	LMB-1200
Travel (inches)		2	4	6	8	10	12
Positional Accuracy (µm) w/linear encoder		8	10	15	20	25	30
Positional Accuracy (µm) open loop		13	15	20	25	30	35
Bidirectional Repeatability (µm)		± 1	± 1	± 1	± 1	± 1	± 1
Flatness & Straightness (µm)		5	6	8	10	12	14
Pitch & Yaw (arc-seconds)		15	20	25	30	35	40
Load Capacity (kg)[1]		75	95	125	145	175	175
Mass (kg)	Moving	0.5	0.7	0.9	1.1	1.4	1.8
	Total	2.5	3.2	3.9	4.6	5.2	5.9

Configuration (Apply to all of the above models)			
Ballscrew	Lead (mm)		2*, 5
			* 2mm lead not available for LMB-1000 or LMB-1200
Motor	Stepper	400 step/rev.	118 oz-in Torque
		200 step/rev.	135 oz-in Torque
	Servo		2048 Count Encoder

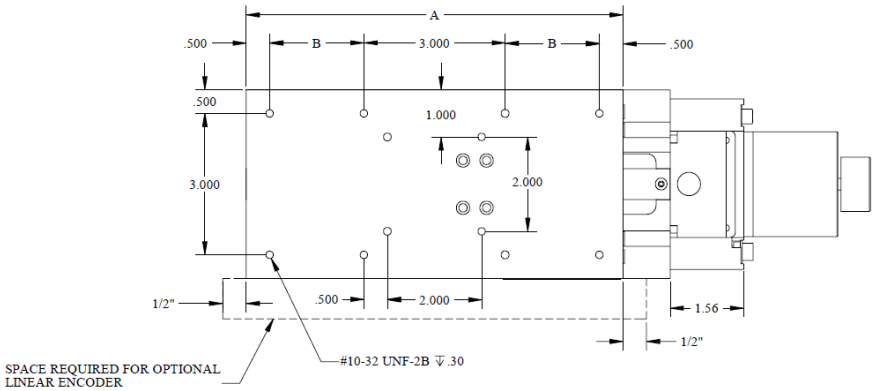
Option		
Encoder	Rotary	2,000 or 4,000 counts/rev.
Encoder	Linear	1 or 0.1 µm/count

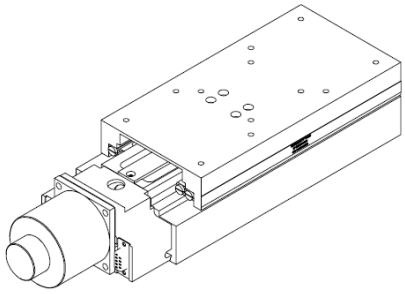
[1] Please contact our Applications Engineers for loads exceeding 35 kg.

LMB™ Stage

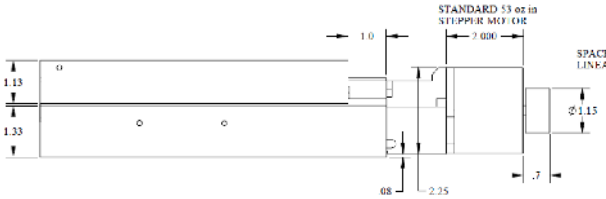
Dimensions

Top View

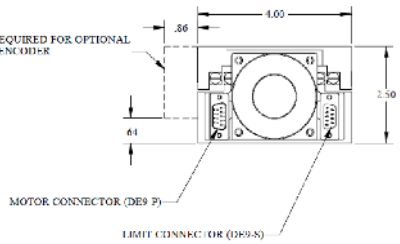




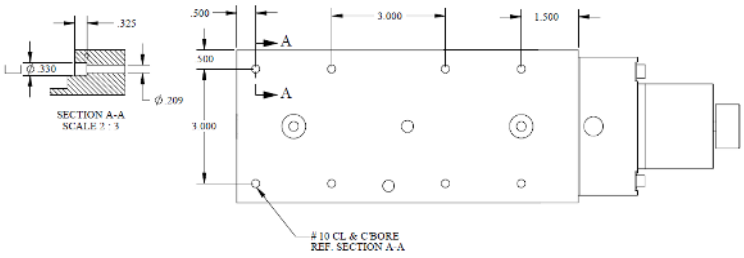
Side View



End View



Bottom View



Model	Travel (T)	Length (L)	A	B	C	D
LMB-200	2.00	5.00	4	-	8	4
LMB-400	4.00	7.00	6	1	12	8
LMB-600	6.00	9.00	8	2	12	8
LMB-800	8.00	11.00	10	3	12	8
LMB-1000	10.00	13.00	12	4	12	8
LMB-1200	12.00	15.00	14	5	12	8

Measurements in inches
"C" refers to number of tapped holes #10-32 in top view
"D" refers to number of counterbores #10 in bottom view

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