



## Dover Motion

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## 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"
- : Anti backlash friction nut

## Description

The LM Series is a very popular single-axis positioning table. It incorporates precision crossed roller ways providing high load capacities and increased stiffness. The LM Series has the bearing journals machined into the base section, as most of Dover Motion's

stages do, to ensure precise positioning. Standard units include a motor, limit switches, and locking connectors.

## Specifications

Specifications		LM-200	LM-400	LM-600	LM-800	LM-1000	LM-1200
Travel (inches)		2	4	6	8	10	12
Leadscrew Accuracy (µm)	Precision	15	20	20	20	25	25
	Commercial	45	65	75	80	100	120
Bidirectional Repeatability (µm)	Precision	3	3	3	3	3	3
	Commercial	6	6	6	6	6	6
Flatness & Straightness (µm)		5	6	8	10	12	14
Pitch & Yaw (arc-seconds)		15	20	25	30	35	40
Load Capacity (kg) <sup>1</sup>		75	95	125	145	175	175
Maximum Leadscrew Speed (rps)		15					
Mass (kg)	Moving	0.5	0.7	0.9	1.1	1.4	1.7
	Total	2.5	3.2	3.9	4.6	5.2	6.1

## Configuration (Apply to all of the above models)

Leadscrew	Lead (Inch)	Precision	0.40	0.20	0.10	0.02	
		Commercial	0.50	0.40	0.20	0.10	0.02
	Lead (mm)	Precision	2				
		Commercial	3	2	1.4		
Motor	Stepper	400 step/rev.	118 oz-in Torque, others Available				
		200 step/rev.	135 oz-in Torque, others Available				
	Servo	with 2048 Count encoder					

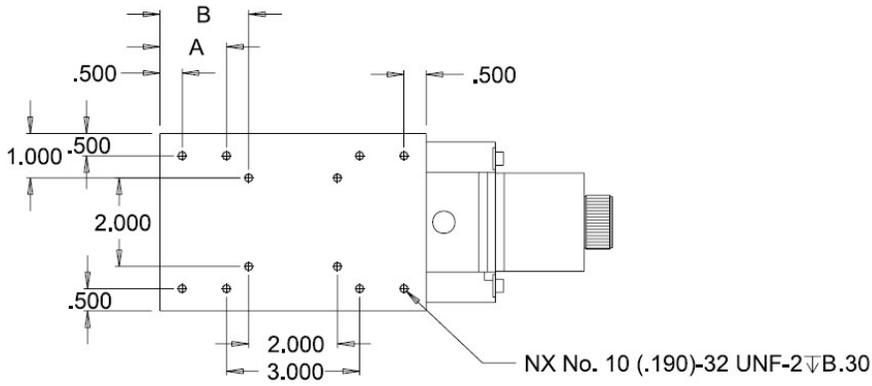
## Option

Encoder	Rotary	2,000 or 4,000 counts/rev.
Encoder	Linear	1 or 0.1 µm/count, others available upon request

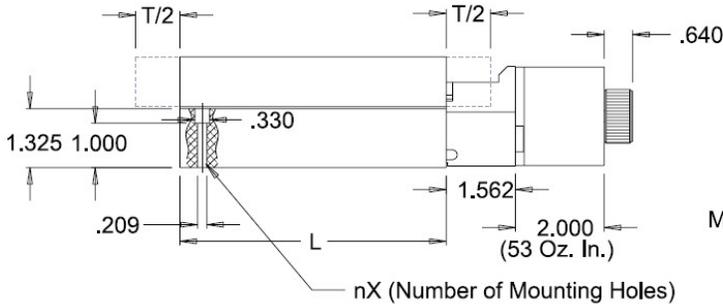
<sup>1</sup> Please contact our Applications Engineers for loads exceeding 35 kg.

## Dimensions

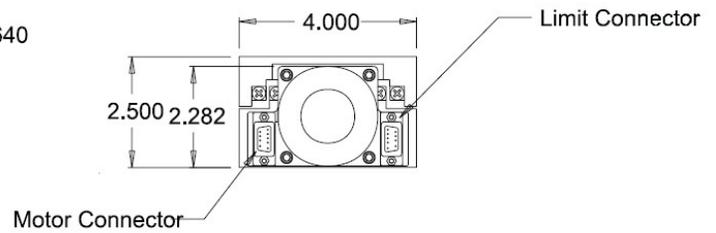
Top View



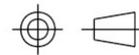
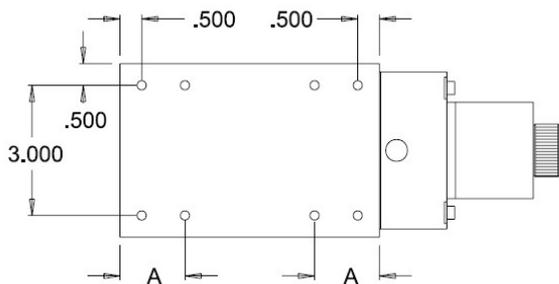
Side View



End View



Bottom View



Third Angle Projection  
Note: All Dimensions in Inches

Model	Travel (T)	Length (L)	n	N	A	B
LM-200	2.00	4.00	4	8	-	1.000
LM-400	4.00	6.00	8	12	1.500	2.000
LM-600	6.00	8.00	8	12	2.500	3.000
LM-800	8.00	10.00	8	12	3.500	4.000
LM-1000	10.00	12.00	8	12	4.500	5.000

Measurements in inches