

# TMS Series

## Features

- Space-saving design with 4" x 4.25" moving shuttle
- Wide range of travels — from 3" to 11"
- Low profile – only 2.5 inches high
- Anti-backlash friction nut



## Ball-Way Shuttles

The TMS Series is a "shuttle" version of our TM series of single-axis positioning tables. TMS models replace the conventional, full sized top of the TM series with a recirculating shuttle assembly. This results in a much more compact over-

all moving envelope for the table for use in limited space applications. These units come complete and ready to operate with a motor, flexible coupling, knob, Hall-effect limit switches, and locking connectors.

SPECIFICATIONS			TMS-300	TMS-500	TMS-700	TMS-900	TMS-1100
Travel (inches)			3	5	7	9	11
Leadscrew Accuracy (µm)	Precision		20	20	20	25	30
	Commercial		55	65	70	90	110
Bidirectional Repeatability (µm)	Precision		3				
	Commercial		6				
Flatness & Straightness (µm)	Precision		8	13	18	23	28
	Commercial		30	50	70	90	110
Pitch & Yaw (arc-seconds)	Precision		35	45	55	65	75
Load Capacity (kg) <sup>1</sup>			25				
Maximum Leadscrew Speed (rps)			15				
Mass (kg)	Moving		0.7				
	Total		2.5	3.0	3.5	4.4	4.8

CONFIGURATIONS (Apply to all of the above models) <sup>2</sup>									PAGE
Leadscrew	Lead (inch)	Precision	0.40	0.20	0.10	0.02			168
		Commercial	0.50	0.40	0.20	0.10	0.02		
	Lead (mm)	Precision	2						168
		Commercial	3	2	1.4				
Motor	Stepper (oz-in)	400 step/rev.	118			others available			190
		200 step/rev.	53	100		others available			
	Servo		brush	brushless					192

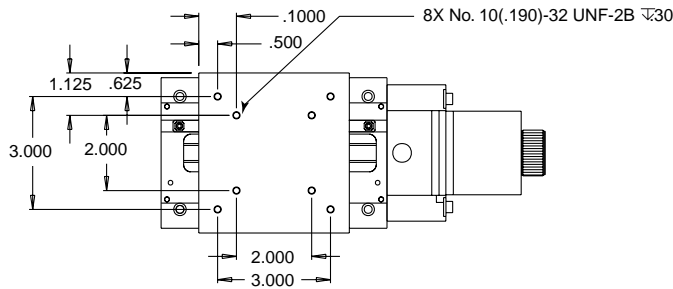
OPTIONS									PAGE
Encoder	Rotary (counts/rev.)		2000	4000					132

<sup>1</sup>Please contact our Applications Engineers for loads exceeding 5kg.

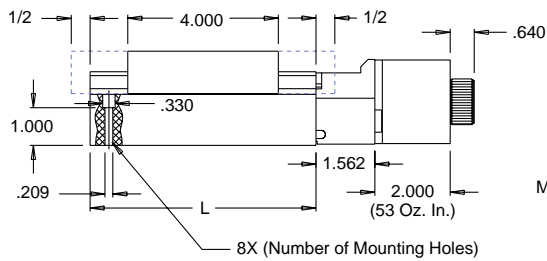
<sup>2</sup>Standard configuration is highlighted.



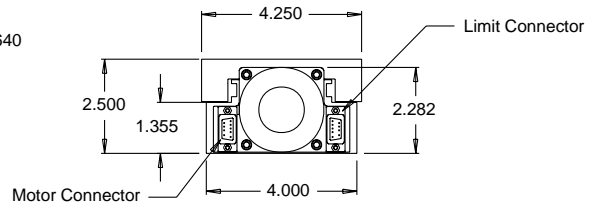
Top View



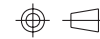
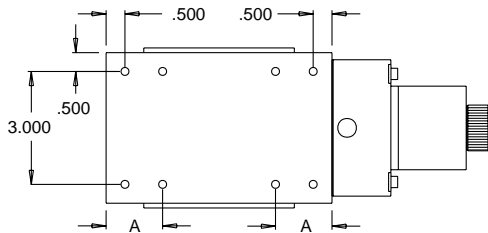
Side View



End View



Bottom View



Third Angle Projection  
Note: All Dimensions in Inches

MODEL	TRAVEL T	LENGTH L	A
TMS-300-SM	3.00	6.00	1.500
TMS-500-SM	5.00	8.00	2.500
TMS-700-SM	7.00	10.00	3.500
TMS-900-SM	9.00	12.00	4.500
TMS-1100-SM	11.00	14.00	5.500

Note: All dimensions are in inches.

