

OFL™ Open Frame Table



Large, Open Frame X-Y Tables

The OFL Series provides increased travel and load bearing capacity in an open frame X-Y configuration. These tables address a wide range of precision positioning applications which require mechanical or optical, two-sided access. These include pin insertion, vision systems, optical gaging and inspection, water jet cutting, and biomedical assays. The OFL Series employs individually preloaded ball way construction,

avoiding the difficulties inherent in establishing a preload across the table's open plates. This design also means that the lower axis motor is mounted to the base plate and remains stationary, while the upper axis motor moves in one axis. Side-mounted leadscrews, with anti-backlash friction nuts, are driven by 23 frame motors.

Features

- : Travels from 8"x8" to 25"x25"
- : Clear aperture for two-sided access
- : Anti-backlash friction nuts

SPECIFICATIONS	OFL-1515	OFL-1919	OFL-2121	OFL-2727	OFL-3232	
Travel (inches)	8 x 8	12 x 12	14 x 14	20 x 20	25 x 25	
Leadscrew Accuracy, per axis (µm)	80	120	140	200	250	
Bidirectional Repeatability (µm)			6			
Flatness & Straightness per axis (µm)	15	30	50	70	135	
Orthogonality (arc-seconds)			50			
Load Capacity (kg) ¹	55	75	90	90	80	
Maximum Leadscrew Speed (rps)			15			
Moving Mass (kg)	Upper Axis	4.5	5.9	6.8	9.1	10.9
	Lower Axis	18.6	23.6	26.8	34.0	37.6
Total Mass (kg)	26.8	34.5	37.6	48.5	57.2	

CONFIGURATIONS (Apply to all of the above models) ²						PAGE
Leadscrew	Lead (inch)	0.50	0.40	0.20	0.10	172
	Lead (mm)	2				172
Motor	Stepper (oz-in)	400 step/rev. 200 step/rev.	118 100	others available others available		194
	Servo		brush	brushless		196

OPTIONS						PAGE
Encoder	Rotary (counts/rev.)	2000	4000			136
	Linear (µm/count)	5	1	0.5	0.1	134

¹Please contact our Applications Engineers for loads exceeding 25kg.
²Standard configuration is highlighted.

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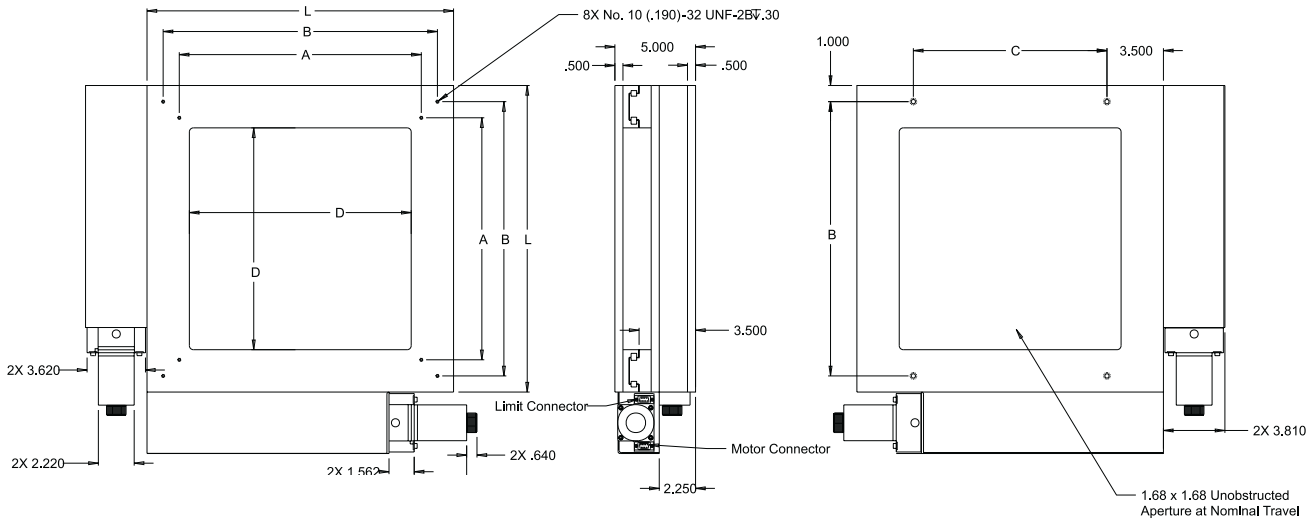


Helping you build a better machine, faster.

Top View

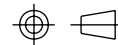
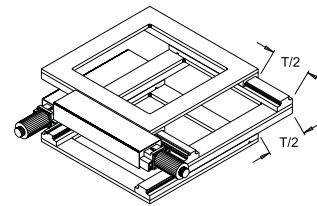
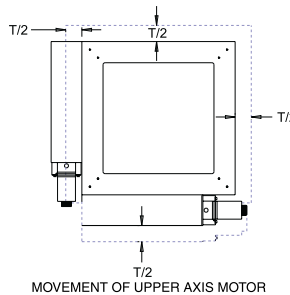
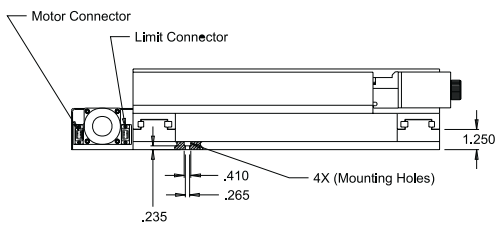
Side View

Bottom View



End View

Moving Envelope



Third Angle Projection
Note: All Dimensions in Inches

MODEL	TRAVEL LENGTH		LENGTH			
	T	L	A	B	C	D
OFL-1515-SM	8.00	15.00	11.000	13.000	8.000	9.750
OFL-1919-SM	12.00	19.00	15.000	17.000	12.000	13.750
OFL-2121-SM	14.00	21.00	17.000	19.000	14.000	15.750
OFL-2727-SM	20.00	27.00	23.000	25.000	20.000	21.750
OFL-3232-SM	25.00	32.00	28.000	30.000	25.000	26.750

Note: All dimensions are in inches.