

# OFS™ Open Frame Table

## Features

- Thin cross-section with clear aperture
- Travels from 2"x2" to 8"x8"
- Anti-backlash friction nuts



## Small, Open Frame X-Y Tables

The OFS Series of open frame X-Y tables combines low profile two-axis positioning with a clear aperture. These tables employ ball ways and feature a three-piece construction, which "machines-in" orthogonality. Since both motors are attached to the center section, they both move with the lower axis. The 1.5" x 1.5" clear aperture allows these tables to be used in applications requiring transmitted light, or two-

sided access to the user's part. The use of side-mounted lead screws, with spring-loaded friction nuts, driven by 17 frame motors achieves a stage body thickness of only 1.5 inches. The motors include rear-shaft mounted knobs for manual control, and locking motor and limit/encoder connectors allow convenient attachment of cabling.

SPECIFICATIONS		OFS-4040	OFS-6060	OFS-8080	OFS-1010
Travel (inches)		2 x 2	4 x 4	6 x 6	8 x 8
Leadscrew Accuracy (µm) (per axis)	Precision	15	20	20	20
	Commercial	45	65	75	80
Bidirectional Repeatability (µm)	Precision	5			
	Commercial	10			
Flatness & Straightness (µm) (per axis)		5	10	15	20
Orthogonality (arc-seconds)	Precision	20			
	Commercial	40			
Pitch & Yaw (arc-seconds)		30	40	50	60
Load Capacity (kg)		2	5	7	10
Maximum Leadscrew Speed (rps)		15			
Moving Mass (kg)	Upper Axis	0.2	0.5	0.7	1.0
	Lower Axis	1.1	1.8	2.9	4.6
Total Mass (kg)		2.0	2.9	4.8	7.7

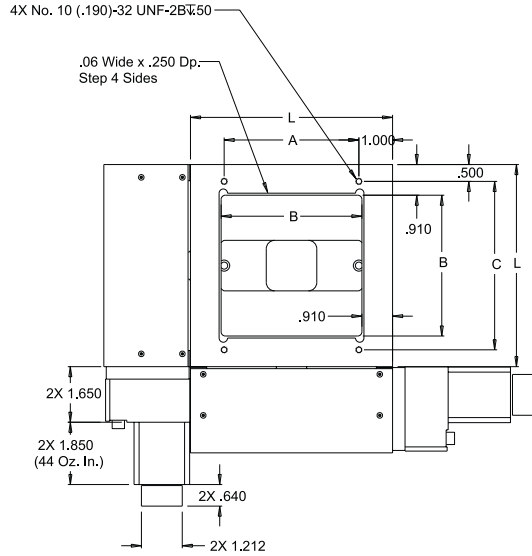
CONFIGURATIONS (Apply to all of the above models) <sup>1</sup>							PAGE
Leadscrew	Lead (inch)	Precision Commercial	0.40	0.20	0.10	0.02	172
			0.50	0.40	0.20	<b>0.10</b>	
	Lead (mm)	Precision Commercial	2				172
			3	2	1.4		
Motor	Stepper (oz-in)	400 step/rev. 200 step/rev.	23	others available			194
			<b>44</b>	others available			
	Servo		brush	brushless		196	
OPTIONS							PAGE
Encoder	Rotary (counts/rev.)		2000	4000		136	

<sup>1</sup>Standard configuration is highlighted.

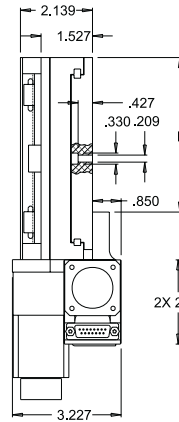
# OFS™ Open Frame Table

X-Y TABLES

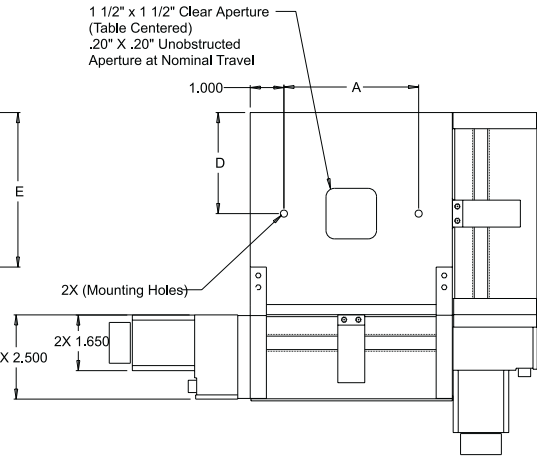
Top View



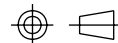
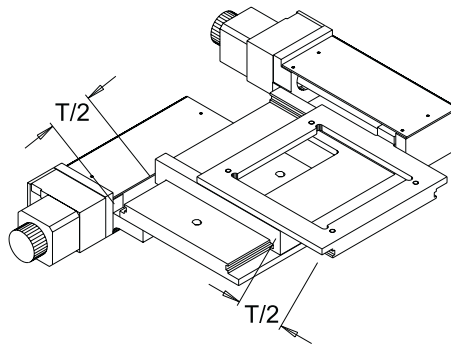
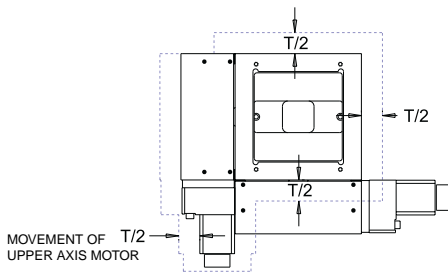
Side View



Bottom View



Moving Envelope



Third Angle Projection  
Note: All Dimensions in Inches

MODEL	TRAVEL T	LENGTH L	A	B	C	D	E
OFS-4040-SM	2.00	4.00	2.000	2.180	3.000	2.000	2.57
OFS-6060-SM	4.00	6.00	4.000	4.180	5.000	3.000	4.57
OFS-8080-SM	6.00	8.00	6.000	6.180	7.000	4.000	6.57
OFS-1010-SM	8.00	10.00	8.000	8.180	9.000	5.000	8.57

Note: All dimensions are in inches.

For Further Information Contact ....

Heason Technologies Group Ltd

Tel: +44(0)1403 755800

Fax: +44(0)1403 755810

Email: sales@heason.com

Freephone 0800 374903 www.heason.com

**Heason**  
Technologies Group

