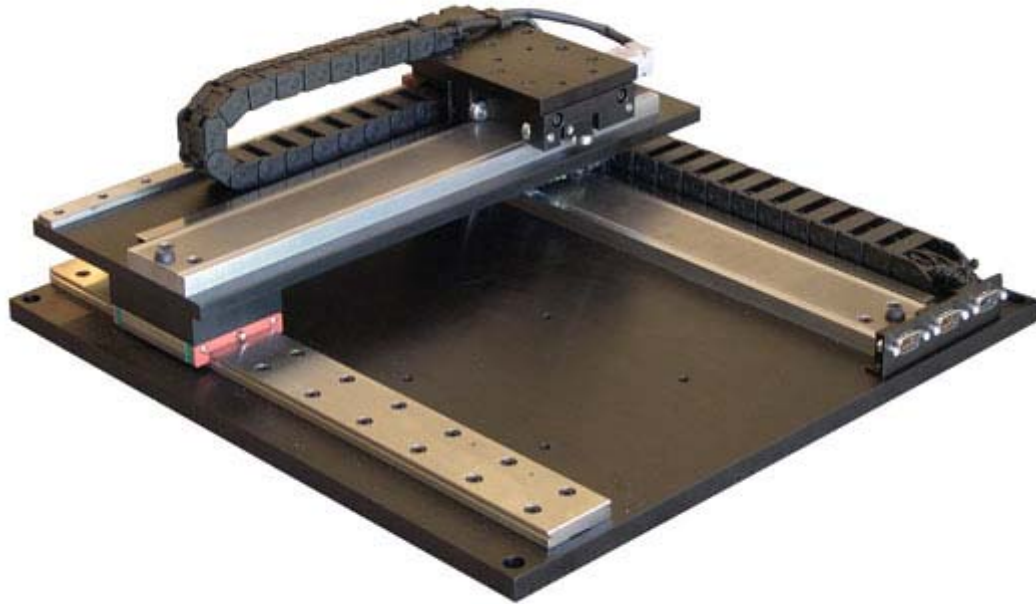


## Multi-Axis Positioning System



The Multi-Axis Positioning System is designed to allow direct coupling between the load and the drive motors. This feature eliminates backlash, allows for fast acceleration / deceleration, high speed operation while increasing the reliability.

These systems are available with linear stepping or linear three phase brushless motors.

Customized solutions can be provided upon request.

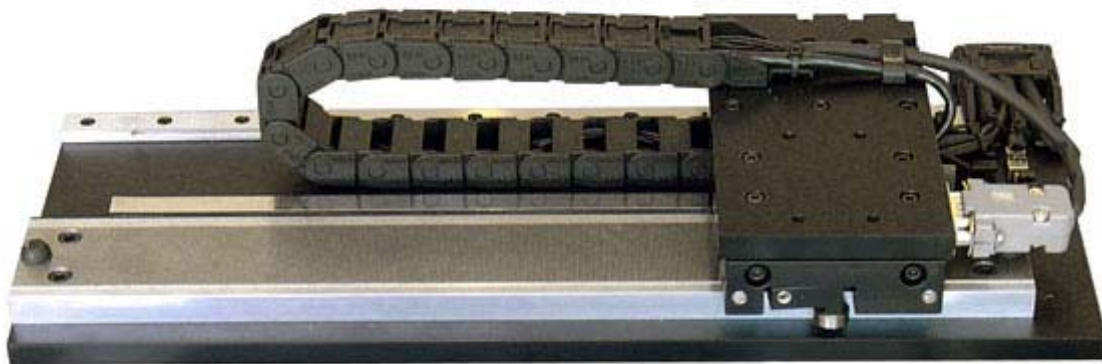
### Specifications

- Zero Backlash
- Long System Life
- Continuous Force in X and Y Directions
- Peak Force: Up to 15 lbs (66 N)
- Total Travel (typical): 10 inches (25 cm) by 10 inches (25 cm)
- Working Area (typical): 8 inches (20 cm) by 8 inches (20 cm)
- Open Loop Accuracy (typical) with Linear Stepper Motor: 0.001 inches / foot (85 microns / meter)
- Open Loop Repeatability (typical) with Linear Stepper Motor: 0.0004 inches / foot (33 microns / meter)
- Optional Incremental Encoder for Closed Loop Operation

**motiCont**

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**Single-Axis Positioning System**



**Three-Axis Positioning System**



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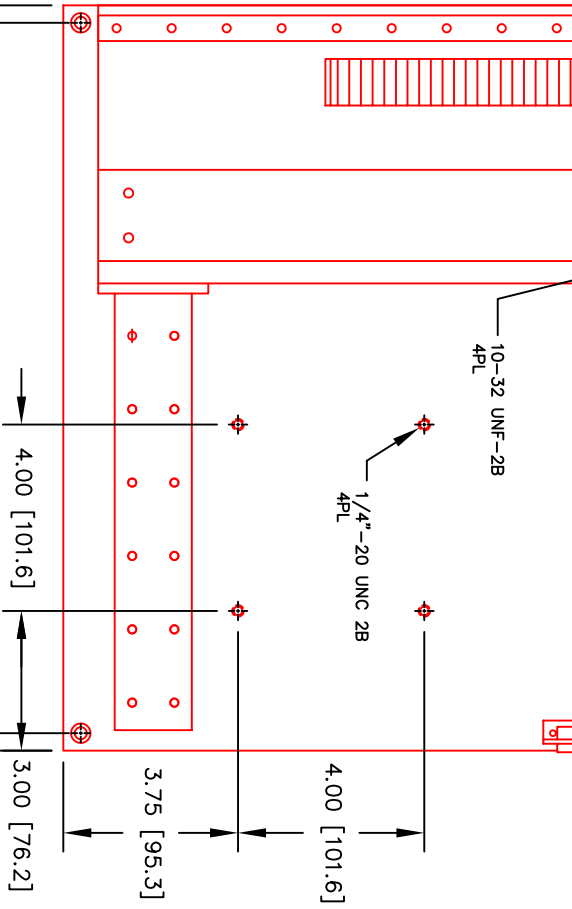
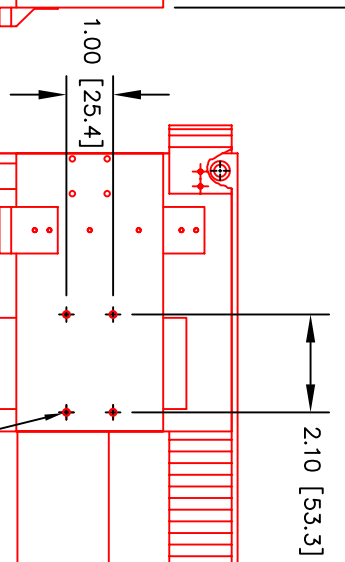
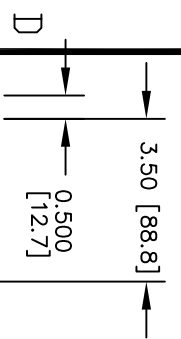
4

3

2

1

REVISIONS				
ZONE	LETTER	DESCRIPTION	DATE	APPROVED



Ø0.265 [6.73] THRU  
C-BORE: Ø0.420 [10.67] x 0.280 [7.11] DP  
4PL

10-32 UNF-2B  
4PL

1/4"-20 UNC 2B  
4PL

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**moticont**

TWO AXIS POSITIONING SYSTEM

DIMENSIONS ARE IN INCHES (mm)		MATERIAL		CONTRACT	
DECIMALS	FRACTIONS ON:	DRN		SIZE	CODE
.XXX XX	ANGLES ± 1/125 ± 1/2°	CHKD		A	
±.005 ±.01	UNLESS OTHERWISE SPECIFIED	APPVD		SCALE: 1 / 4	DWG. NO. GXY-10-10
USED ON	APPLICATION	APPVD		SHEET 1 OF 1	REV. 1

NOTES:  
UNLESS OTHERWISE SPECIFIED

4

3

2

1

A

B

C

D

A

B

C

D