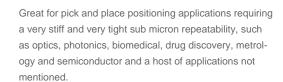






The KPX is a complete family of single axis positioning stages that employ integrated Ironless Linear Servo technology along with high precision optical encoders to form a compact self contained unit.

These units are optimal for high performance positioning applications requiring high accuracy and repeatability. They are also uniquely qualified to be used for processes that require smooth velocity control. The motor and encoder technology along with Anti-Creep Crossed Roller guides offer a superior performance for cogless velocity control or sub-micron positioning.



This family of product can be used in single axis or multi axis configurations. The stages come in multiple widths and length that allow you to tailor the configuration to suit your requirements.

Unlike most manufactures Ibex Engineering is uniquely qualified to take any standard configuration and tailor them to suit your custom configuration. Ibex offer a plethora of different stage solutions to meet your needs

Features at a glance

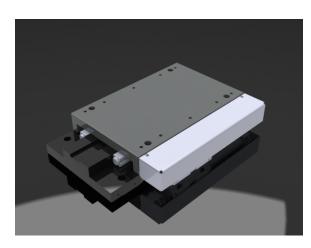
- Multiple widths and lengths
 - 50mm, 75mm, 100mm, 150mm widths
- Ironless shaft linear servo technology
 - Non-contact, Cogless, Superior efficiency which means lower heat
- Anti-Creep Crossed Rollers
 - Superior precision and rolling smoothness
- Optical linear encoder
 - Available in multiple resolutions and can be configure with different scale types
- Moving magnet to minimize moving wiring meaning superior life and wear
- Very stiff for superior positioning performance









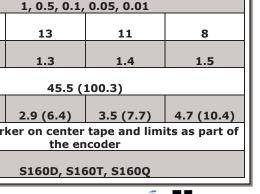


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- No moving wires
 - Superior life and wear, no wire fatigue
- Very stiff for maximized positioning performance

Mechanical Stage Specifications

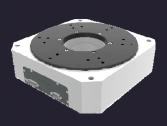
Cuacifications							
Specifications	Units	KPX150-100	KPX150- 150	KPX150- 200	KPX150- 300		
Travel / Stroke	mm (in)	100 (3.94)	150 (5.91)	200 (7.87)	300 (11.81)		
Length	mm (in)	230 (9.055)	280 (11.024)	330 (12.992)	430 (16.93)		
Accuracy	μm	5	7	9	12		
Bi-Directional Repeatability		±1 count					
Straightness & Flatness	μm	2/25mm					
Encoder Resolution	μm	1, 0.5, 0.1, 0.05, 0.01					
Maximum Acceleration	m/s2	17	13	11	8		
Maximum Velocity Note 4	m/s	1.3	1.3	1.4	1.5		
Load Capacity	kg (lb)	45.5 (100.3)					
Moving Mass	kg (lb)	2.3 (5.1)	2.9 (6.4)	3.5 (7.7)	4.7 (10.4)		
Home Limit Switches		* Home marker on center tape and limits as part of the encoder					
Linear Shaft Motor(s)		S160D, S160T, S160Q					







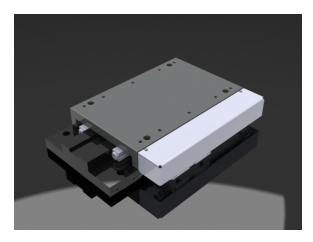












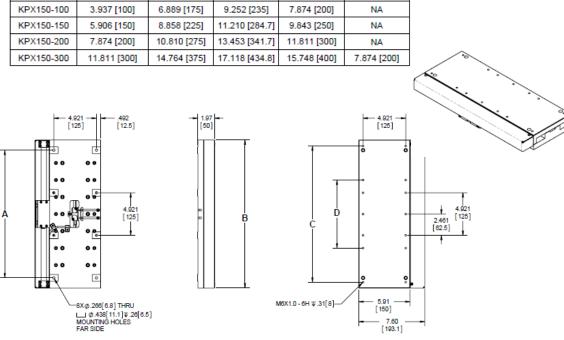
MODEL

TRAVEL in [mm]

Features at a glance

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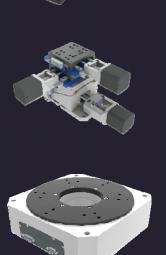
Mechanical Stage Specifications



С











SYSTEM REQUIREMENTS

Stages can be purchased with or without Drive or Control. If you need help selecting a drive and/or control or if you would like to purchase them with the stage lbex Engineering can accommodate either choice



SERVICES AVAILABLE

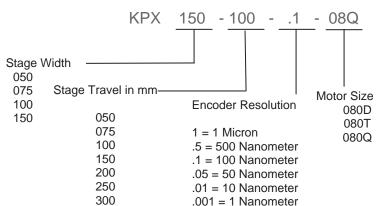
Technical Support
Drive and control selection
Installation and Setup
Maintenance
Application Support
Hardware Support
Guaranteed Warranty

Electrical Motor Specifications

Utilize the electrical data below to help select the proper servo drive

Linear Motor Specifications	Units	S080D	S080T	S080Q
Motor Force Constant	N/A rms	2.1	3.2	4.2
Continuous Current	A rms	0.8	0.8	0.8
Peak Current **	A rms	3.4	3.4	3.4
Continuous Force	N	1.8	2.47	3.5
Peak Force **	N	7.2	10.8	14
Back Emf Constant	V/m/s	0.7	1.1	1.4
Coil Resistance ***	Ω	4.7	6.8	9
Coil Inductance	mH	0.7	1	1.3
Continuous Power Rating	W	3	4.4	5.8
Thermal Resistance	C/w	33.2	22.9	17.3
Magnetic Pitch North to North	mm	30	30	30

How to order





1200 Lawrence Dr. Suite 150 Newbury Park, CA 91320 Phone 805-480-3455

