



MICRO PRECISION LINEAR ACTUATORS

Modular Miniature Linear Actuators

Helix attaches the lead screw to a custom designed hybrid stepper motor with beefed-up deep groove ball bearings to maximize thrust loads and rigidity.

Motors are laser welded to the lead screw for a truly compact low cost actuator. They are available with optional encoders, connectors, and custom cables.

IPA Ordering Guide Table													
IPA	B	196	AB	17	0609	D	E 200	A	S				
Series	Linear Guide Supports	Screw Lead	Nut Type	Motor Frame Size	Actuator Length	Motor Power	Encoder	Encoder Position	Modifications				
IPA Integrated Motor and Lead Screw Actuator	A - No external rail (Square carriage)	039 - 1mm	S - Standard nut	17 NEMA 17	(mm) See page 5 for actuator length data	S - Single Stack	E 200 200 CPR	A	S - Standard				
		078 - 2mm					E 500 500 CPR						
	B - One rail - Right* one runner block ("L"-shaped carriage)	196 - 5mm				AB - Anti- backlash nut	23 NEMA 23			D - Double Stack	E1000 1000 CPR	B	M - Modified
		393 - 10mm									E2000 2000 CPR		
	C - One rail - Left* one runner block ("L"-shaped carriage)	472 - 12mm	T - Triple Stack										
		999 - 25mm											
D - Two rails, one runner block ("U"-shaped carriage)	M38 - 1.5in												

EXAMPLE PART NUMBER: IPA - B - 196 - AB - 17 - 0609 - D - E 200 - A - S

*Left and right sides are determined by looking down the assembly with the motor at the end nearest to you.

NOTE: Actuators can be customized in many ways to fit your application:

- Additional lead screw sizes available
- Custom mounting plates
- Custom carriages