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Find the *Newport 422-1S* at our website: ***Click HERE***

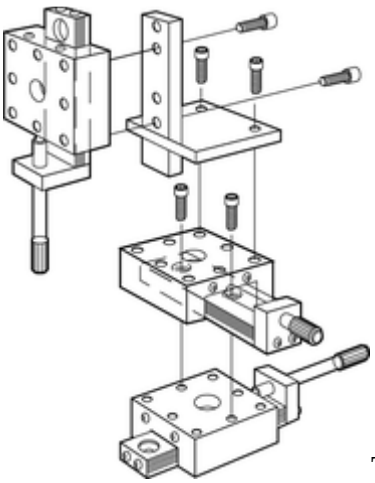
411/422 Series

Miniature Ball Bearing Linear Stages

- 0.5 or 1 in. (13 or 25 mm) travel
- Stackable for compact XY positioning
- Adaptor bracket provides compact XYZ configuration
- Convenient mounting hole pattern
- Ultra-fine, 80-pitch drive screws

Model 411-05S and 422-1S Miniature Ball Bearing Linear Stages are ideal for positioning applications in opto-mechanical instrumentation and laboratory experiments requiring linear motion within a small space. The translating platform rides on a precision ground rail using ball bearings rolling between opposing pairs of hardened and ground steel rods. The stages are preloaded to provide smooth, accurate motion. Ball-tipped 80-pitch screws are spring loaded against the platform to provide high resolution, low backlash performance.

The spring and drive are removable for applications requiring an externally driven linear slide. An array of mounting holes on both the platform and the rail provide a variety of convenient mounting options, including post-mounting on SP Series Posts. The stages are designed to stack for X-Y motion. Vertical motion may also be added using the Model 411B Bracket, which is reversible so a vertical stage can be mounted either for a low profile or to center a heavier load.



Three 411-05S stages and 411B bracket.

Specifications

	411-05S	422-1S
Maximum Stage Travel [in. (mm)]	0.50 (12.7)	1.00 (25.4)

	411-05S	422-1S
Sensitivity (µm)	1	
Angular Deviation (µrad)	<200	
Max Centered Load [lb (N)]	8 (36)	16 (71)
Load Capacity, Vertical [lb (N)]	5 (22)	10 (44)

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