

LKW Series Long Travel Stages



The LKW family of long travel linear stages was developed for high payloads with very high accuracy and speed. These stages can be utilized to carry a laser head or to carry payload instead of a roll to roll type process. Some applications we have developed this for have also been in an XY long travel format where the Y axis was mounted to a gantry above a 2500mm X axis stage. At 240mm wide and from 800mm to 2500mm in length, this drop in stage is ideal for applications in the laser and additive manufacturing industry for cutting, welding and material carrying with very high precision. We can stretch these stages to 3,000mm or more for custom applications if needed.

Specifications

	LKW800	LKW1000	LKW1600	LKW1800	LKW2500
Travel Length	800mm	1000mm	1600mm	1800mm	2500mm
Drive Type	Linear Motors				
Peak Force	405N				
Continuous Force	175N				
Encoder Resolution	50nm				
Linear Accuracy	±20.0µm/m				
Bi-Directional Repeatability	±0.5µm				
Flatness of Travel	±10.0µm	±10.0µm	±50.0µm	±50.0µm	±50.0µm
Straightness of Travel	±10.0µm	±10.0µm	±50.0µm	±50.0µm	±50.0µm
Max Velocity	2.5m/s				
Max Acceleration	19.61m/s ²				

26771 5th Street W, Zimmerman, MN 55398

Phone: (763) 856-8300 / Fax: (763) 856-8301 / E-mail: sales@reliantsystemsinc.com

www.reliantsystemsinc.com

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