

High Precision Positioning Stage for Long Travel



Steinmeyer, Inc. announced an exciting new addition to its line of precision linear stages. Our model PMT320 offers a repeatability of +/- 1 micron, excellent straightness run-out accuracy and travel distances from 600 to 1500 mm. The stage has a 320 mm wide die cast base profile and the 1000 mm stroke stage weighs 70 kg.

The PMT320 series offers two drive options, a servo linear motor or DC rotary motor with precision ground ball screw. Position feedback is provided by a linear encoder. Depending on the drive chosen, maximum acceleration of 5 m/sec² (0.5G) and maximum speed of 500 mm/s can be achieved.

Linear guidance is provided by size 25 precision linear profile rails, which gives the PMT320 a load capacity of 500 kg. Flatness and straightness run-out is +/- 2 microns over any 100 mm travel. For harsh environments, an optional steel cover is available to protect the components.

This stage is ideal for applications in:

- laser technology (laser cutting)
- automation
- metrology
- solar technology (e.g. thin film) markets.

Steinmeyer, Inc.

1-781-273-6220; www.steinmeyer.com [1]

Source URL (retrieved on 01/27/2015 - 12:08pm):

http://www.mdtmag.com/product-releases/2012/06/high-precision-positioning-stage-long-travel?qt-recent_content=0

Links:

[1] <http://www.steinmeyer.com/>

High Precision Positioning Stage for Long Travel

Published on Medical Design Technology (<http://www.mdtmag.com>)
