

Linear Motor Stages



Precision linear motor stages delivers accuracy. Lead times of two weeks or less facilitate reduced-time-to-market for OEMs, or provide greater machine uptime for end users in production environments. The ability to deliver MMG prototypes rapidly speeds the proof-of-concept phase of an instrument under development. The product features an integral anti-creep linear guideway, which can increase uptime by as much as 15 percent in high duty cycle applications by eliminating the need for homing moves typically required to reset standard crossed roller bearing retainer cages. These stages also feature adjustable limits to reduce the time needed to make adjustments to stage travel, in turn reducing prototype development time and system startup costs by 10 percent. Four models are available that deliver 25mm, 50mm, 100mm and 150mm travel. They provide accuracy ranging from 6um to 14um and resolution ranging from 1.0um to 5nm. Each model delivers repeatability to $\pm 0.4\mu\text{m}$ and is rated for 10kg load capacity. An integrated feedback mechanism enables uncompensated accuracy. The encoder eliminates the need for compensation tables or slope correction factors. A standard "Z" axis counterbalance kit eliminates engineering required to integrate a "z" option, in turn reducing the implantation time of the axis stage. Product leverages a standard 3-phase brushless motor to enable control with various off the shelf drives and controllers. No specialized piezo or proprietary motor/drive technology is necessary.

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