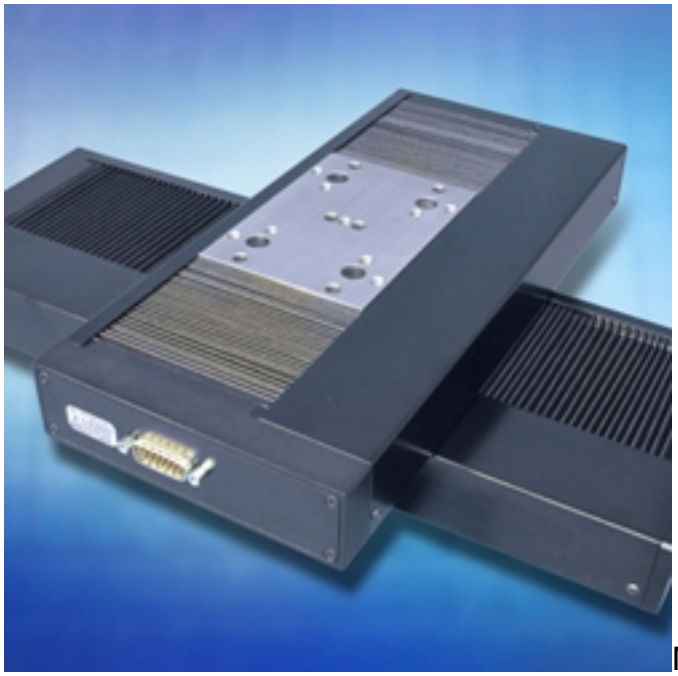
Precision Linear Stages



Newport Corporation, a worldwide leader in motion control technology, introduces the new series of FMS Precision Linear Stages. The high precision, motion control stages are designed for use in surface profiling, tribology, and contact (stylus) and non-contact metrology (white light interferometry). The stainless steel stages permit high straightness and flatness, exceptional thermal stability, and outstanding bi-directional and uni-directional repeatability. Highly reliable and robust, the anti-creep crossed roller bearings enable extremely smooth motion with minimal noise.
Ideal for surface metrology applications, Newport's FMS linear stages are available in three travel options: 100 mm, 200 mm, and 300 mm. The new precision linear stages can be ordered with either a DC or a stepper motor. They are fully compatible with Newport's line of ESP integrated controller/driver products, including the single axis SMC100, the 3-axis ESP301, and the high–performance 8-axis XPS Universal Controller.

The small footprint, all-steel construction ensures a highly accurate and stable platform with exceptional flatness and straightness at speeds of up to 100mm/s, ideal for surface profiling and microstructure characterization. Other applications include scribing, micro-machining, and delay lines.

Beda Espinoza, Senior Manager, Motion Products, Newport Corporation, notes, "We are excited to announce the Fine Metrology Stage family with advanced performance, stability, and competitive pricing. Newport's all-steel construction (including the base, carriage, ball-screw, and bearings) is far superior to stages built with a combination of aluminum bases paired with steel guide or drive components. Our innovative design minimizes or eliminates the effects of temperature variations in the production environment to meet the critical performance requirements of straightness and flatness of motion for surface profilers."

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