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New Products






Opto-Mech | Optics | Vibration Control | Photonics | Motion

Motion Control

PR50 Series Low Profile Rotation Stages - Added 8/22/00
The PR50 Series low profile rotation stages are our newest line of compact rotary stages designed to rotate up to 1" diameter optical components, such as polarizers, waveplates, or wedges. The small size (60 mm width x 110 mm length x 21 mm height) allows use in confined spaces such as laser cavities, disk texturing machines, or manufacturing areas for miniature optical isolators...

ILS Series Motorized Translation Stages - Added 8/22/00
The ILS Series of translation stage features an aluminum extruded body and recirculating preloaded ball bearing slides to ensure accurate linear travel...

ESP300 Motion Controller/Driver
The **ESP300** is Newport's newest motion control platform offering excellent functionality at an affordable price. The ESP300 is an integrated controller and driver in one chassis which simplifies system hook-up and provides improved reliability. The ESP300 can drive and control up to three axes of motion using any combination of DC and/or stepper motors. Each driver module will drive 2 or 4 phase stepper and brush DC servo motors at 1A (max.) per axis. This capability will allow you to drive a large selection of stages and actuators. The controller uses a 32-bit, floating point, 60 MHz DSP processor for high precision synchronized control, and supports sophisticated trajectories like: synchronized circular/linear interpolation and continuous path contouring for complex motion profiling. The controller can also execute trapezoidal and S-curve velocity profiles for smooth, jerk free positioning...

ESP100 Motion Controller/Driver
The ESP100 is Newport's latest addition to the ESP motion control platform offering affordable, single axis control. The ESP100 is an integrated controller and driver in one chassis, which simplifies system connection and provides improved reliability. The ESP100 can drive one axis of motion in open or closed loop operation, using either 2 or 4 phase stepper or brush DC servo motors at 1A (max.). This capability allows you to drive a large selection of stages or actuators. The controller uses a 32-bit floating point, 60MHz DSP microprocessor for high precision control...

ESP7000 Motion Controller/Driver
The ESP7000 is Newport's most advanced ESP motion control platform offering unsurpassed functionality and excellent performance. The ESP7000 is an integrated controller and driver in one chassis which simplifies system hook-up and provides improved reliability. The ESP7000 can drive and control up to six axes of motion using any combination of DC and/or stepper motors...

MAT350/MAT240
Newport's new **linear motor driven positioning stage** is an integrated motion sub-system designed specifically for use in today's most demanding sub-micron semiconductor processing applications. To maximize throughput, the system is capable of speeds up to 350 mm/sec and accelerations up to 0.6 g with minimal settling times. In addition, all components of the system have been chosen to ensure long term reliability (20,000 hr. MTBF)...

Integrated Z-Theta Vertical and Rotation Stage for Wafer Positioning
Newport's new ZVR10 is an integrated Z-vertical and Theta-rotation positioning stage designed to precisely elevate and rotate 200 mm and/or 300 mm diameter wafer chucks. Also offered is our Model ZV10 which is a Z-vertical version of this stage without the integrated rotary axis...

TSW - LM Linear Motor Stages
Newport's newest member of the TSW stage family is targeted at those applications that require the benefits of a linear motor drive and the precision of a high quality crossed-roller stage. The TSW Series precision translation stages are specifically designed for production test measurement and inspection applications requiring high precision and a large work surface...

TSC Center-Drive Translation Stage
The TSC Series translation stages are single-axis, center-drive stages designed for applications that require fast settling times. The drive screw is mounted and aligned down the center of the stage to minimize hysteresis due to off-center forces. The narrow stage body of the TSC Series reduces weight and inertia, and allows the side-mounted, non-contact linear encoder to be positioned closer to the drive. This results in a stage that makes quick moves through a tight servo loop to provide fast settling time...

TSH Low-Profile Linear Stage
The TSH Series stage has been designed for applications requiring rapid point-to-point motion in a confined space. Measuring just 2.25 inches wide by 1.25 inches high, the stage body is machined from a single piece of 7075 aluminum to provide maximum stiffness. Use of linear recirculating guides and a ball screw drive give the TSH a high degree of precision, as well as the durability necessary for high duty cycle industrial applications...

TSZ Series Vertical Linear Stage
The TSZ Series has been designed for applications with large load forces due to aggressive move profiles or stage orientation. The TSZ is well suited for mounting in a vertical orientation...

CTS25 Compact Translation Stage
Newport's new CTS25 stage is a high-precision, 25 mm travel linear translation stage for high duty cycle, industrial applications requiring high resolution and repeatability in a very compact envelope. The stage is designed for use in either horizontal or vertical orientations...

RV Series High-Performance Annular Rotation Stages
Newport's new RV Series rotation stages offer high-precision angular positioning accuracy combined with high load carrying capacity in a compact, annular design. Precise rotation is ensured by a precision ground, hardened worm and gear drive, which provides smooth, continuous 360° motion (except for HA versions). A double-row of pre-loaded, re-circulating ball bearings combined with a monolithic, tool-steel body supports the rotating platform providing high load capacity and excellent rigidity...

URM150 High-Resolution Rotation Stage
The URM150 is the latest addition to the URM family stage of stages. It offers the same high performance and

value as the smaller URM100, but in a larger and more robust package for more demanding industrial process applications...

SR50 Compact Rotation Stage
The SR50 Series compact rotation stages are a new line of low-profile motorized devices designed to rotate optical components up to 1" diameter, such as polarizers, waveplates, or wedges. The small size of 77 mm width by 80 mm length by 21 mm height allows use in confined spaces, such as laser cavities, disk texturing machines, or manufacturing areas for miniature optical isolators...

CMA Series
CMA Series Actuators provide reliable high precision motion in a lightweight and compact package. The CMA incorporates a space saving design allowing it to be used with a wide variety of translation stages, mirror mounts, and OEM applications. The CMA is designed to fit your existing manual stages and other opto-mechanical components as a direct replacement for a manual micrometer...

850G Series Closed-Loop Precision Actuator
850G Series actuators provide high-performance motion control in a compact, compatible package. The 850G is designed to fit into your existing manual stages and other opto-mechanical components as a direct replacement for a manual micrometer. 850G positioners feature a space-saving design with the motor and leadscrew side-by-side instead of end-to-end like most other actuators. This cuts the actuator's length in half and minimizes the negative effects of long cantilever structural loads on submicron positioning repeatability...

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