



## MINI POSI-DRIVE™ & POSI-DRIVE™ STAGES

SERIES	LOAD CAPACITY, LB.	TRAVEL	LENGTH	ACCURACY
LS1-1-C125-LS3-12-B10 (36 MODELS)	8-90	1.0-12.0	4.88-21.63	0.0001"/"
LRS1-1-C125-LRS3-12-B10 (36 MODELS)	15-180	1.0-12.0	4.88-21.63	0.0001"/"

### MINI POSI-DRIVE™ STAGES

Compact Posi-Drive™ series LS1 and LRS1 stages have a height of only 1.250 inch and a width of only 1.380 inch. These stages provide the same outstanding 0.0001 inch straight line accuracy per inch of travel and 0.0001 inch repeatability as the larger LS3 series Posi-Drive™ line. The new smaller stages also offer a compact, flexible configuration and are adaptable to standard Nema configurations.

The LS1 Posi-Drive™ stages offer a .168 inch diameter .125 lead screw, an anti-backlash nut and a flexible zero backlash coupling that accepts a Nema 14 motor. They provide a load-carrying capacity of up to 40 pounds. The stages are available in travel lengths ranging from 1 inch to 4 inches. Del-Tron also provides special configurations, motor mounts, hand crank actuation and a variety of leads and pitches.

The new positioners are available with either linear ball or crossed roller slides and can be configured for one, two, or three-axis positioning. In the ball slide version, precision steel balls roll in the raceway grooves with contact at four points, enabling load and moment to be carried on all directions. Rolling resistance is extremely low, ensuring smooth and stable operation. Crossed roller slides physically resemble ball slides except for the bearing design. The rollers share a larger contact surface with the rods as compared to the point contact of steel balls. This bearing design allows crossed roller slides to carry larger loads and absorb greater load impacts than equivalent size ball slides.

## **MINI POSI-DRIVE™ STAGES**

(continued)

Compact Posi-Drive™ series LS2 and LRS2 stages have a height of only 1.650 inch and a width of only 1.750 inch. These stages provide the same outstanding 0.0001 inch straight line accuracy per inch of travel and 0.0001 inch repeatability as the larger LS3 series Posi Drive™ line. The new smaller stages also offer a compact, flexible configuration and are adaptable to standard Nema configurations.

The LS2 Posi-Drive™ stages offer a 0.250 inch diameter .250 lead screw, an anti-backlash nut and a flexible zero backlash coupling that accepts a Nema 17 motor. They provide a load-carrying capacity of up to 60 pounds. The stages are available in travel lengths ranging from 1 inch to 4 inches. Del-Tron also provides special configurations, motor mounts, hand crank actuation and a variety of leads and pitches.

The new positioners are available with either linear ball or crossed roller slides and can be configured for one, two, or three-axis positioning. In the ball slide version, precision steel balls roll in the raceway grooves with contact at four points, enabling load and moment to be carried on all directions. Rolling resistance is extremely low, ensuring smooth and stable operation. Crossed roller slides physically resemble ball slides except for the bearing design. The rollers share a larger contact surface with the rods as compared to the point contact of steel balls. This bearing design allows crossed roller slides to carry larger loads and absorb greater load impacts than equivalent size ball slides.

## **POSI-DRIVE™ STAGES**

Compact, economical Posi-Drive™ stages from Del-Tron take the work out of designing motion control systems. Our stages require no alignment of components, install with only four standard fasteners, are fitted with anti-backlash lead screws, multi-beam couplings with high speed misalignment capability and standard NEMA motor mounts.

Available in one, two or three axis configurations with either ball or crossed roller slides, these stages travel up to 12". The crossed roller slide option increases load capacity up to 180 lbs. and 100 million inches of travel is possible at 1/2 rated load.

For more information on Del-Tron's Posi-Drive Stages, [click here](#).



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