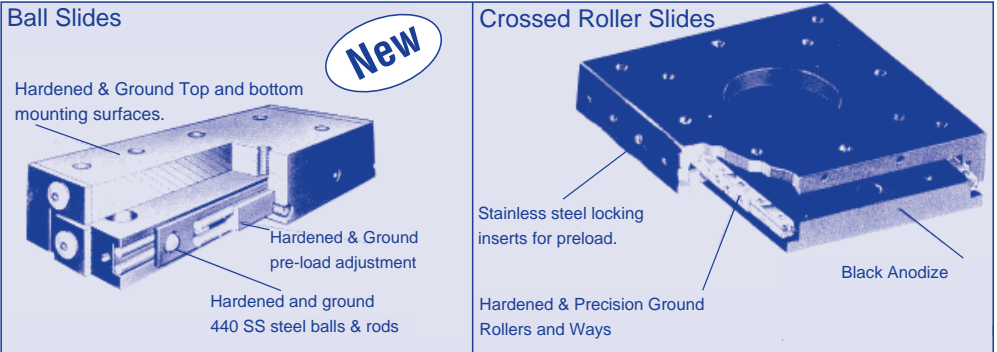


# HIGH PRECISION BALL AND CROSSED ROLLER SLIDES



## DESIGN CRITERIA: Ball Slides

Ball slides are mechanically simple linear motion devices comprised of a stationary base member with a mobile carriage riding on top. Two rows of hardened stainless steel balls on both sides of the base provide the smooth, accurate, low friction sliding motion between the stationary base and the top slide. Each row of bearings is contained between four hardened and precision ground stainless steel rods.

These bearing assemblies are factory preloaded to eliminate wobble and unwanted play in the system.

## DESIGN CRITERIA: Crossed Roller Slides

The Crossed Roller systems are composed of two rows of rollers. Each roller is alternately criss-crossed (at 90°) with the next and captured in "V" grooves, precision ground into steel ways mounted to the base and top. They offer a higher load carrying capacity and higher support stiffness for the load than ball slides.

## SELECTION REVIEW:

All models offer high quality construction features:

- Straight line accuracy of 0.00008 in/in of travel (0.00025 in/in of travel for miniatures)
- Precision ground mounting surfaces to assure flatness and parallelism
- Factory preloaded to precision specifications to eliminate any side play and to provide a uniform coefficient of friction
- Factory tapped and threaded mounting holes on both base and carriage for easy mounting
- Locking thread inserts on preloaded screws for a maintenance-free life without loss of preload
- Hardened and precision ground stainless steel balls and rods on ball slides