

TKS PRECISION SCREW DRIVE ACTUATOR

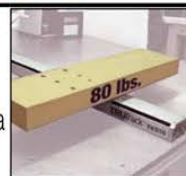
Tolomatic™ ... MAXIMUM DURABILITY
EXCELLENCE IN MOTION

ENDURANCE TECHNOLOGYSM *Endurance Technology features are designed for maximum durability to provide extended service life.*
A Tolomatic Design Principle

The TKS linear table style actuator is designed for applications carrying moderate load and requiring high precision in parameters such as flatness, straightness and accuracy. The TKS actuator utilizes two parallel profiled rails with four recirculating ball linear guides to provide consistent and precise performance. Built-to-order in stroke lengths up to 2.4 m [96 inches] with your choice of screw technology.

PRECISION MACHINED TABLE DESIGN

A low profile design accommodates multiple mounting designs and assures a rigid and secure load



SCREW SUPPORT BEARINGS

Unique high thrust bearing assembly design eliminates runout and isolates the motor from axial forces

MULTIPLE SCREW TECHNOLOGIES

YOU CAN CHOOSE:

- Solid nuts of engineered resins offer quiet performance at the lowest cost; anti-backlash available
- Ball nuts offer positioning accuracy and repeatability with longer life; low-backlash available



INTERNAL BUMPERS

Bumpers protect the screw and nut assembly from damage at end of stroke

MOTOR ORIENTATION

YOU CAN CHOOSE:

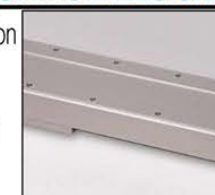
- In-line option directly couples the driving shafts and is a one-piece housing construction for optimum alignment and support of the motor
- Reverse-parallel option minimizes the overall length and offers a 1:1 or 2:1 belt ratio

INTERNAL COUPLER

Integral motor coupling for in-line mounts provides a more compact package size

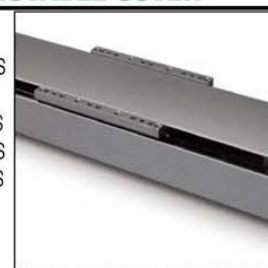
LIGHTWEIGHT ALUMINUM DESIGN

- Clear anodized extrusion design is optimized for rigidity and strength
- Mounting holes placed evenly throughout the stroke maintain rigidity



REMOVABLE COVER

Provides rapid access to internal components and protects mechanisms from incidental damage



TWIN LINEAR RAILS AND BEARINGS

- Industry leading bearing system for consistent tracking, low friction and extended performance
- Superior straightness and flatness is verified at the factory below 0.0002 inches per inch
- Four bearing blocks provide rigid support of the carrier with the lowest possible deflection

INTERNAL SWITCHES

End of travel and home positioning sensors are integral into the body of the actuator for clean and easy management



OPTIONS



CARRIER OPTIONS

- **AUXILIARY CARRIER** Doubles the load capacity and increases pitch and yaw bending moment capacities



SEALING OPTIONS

- **BELLOWS** provides additional protection of mechanical components in dirty environments



SWITCHES

Styles include: reed or hall-effect.
5 m potted cable with flying leads