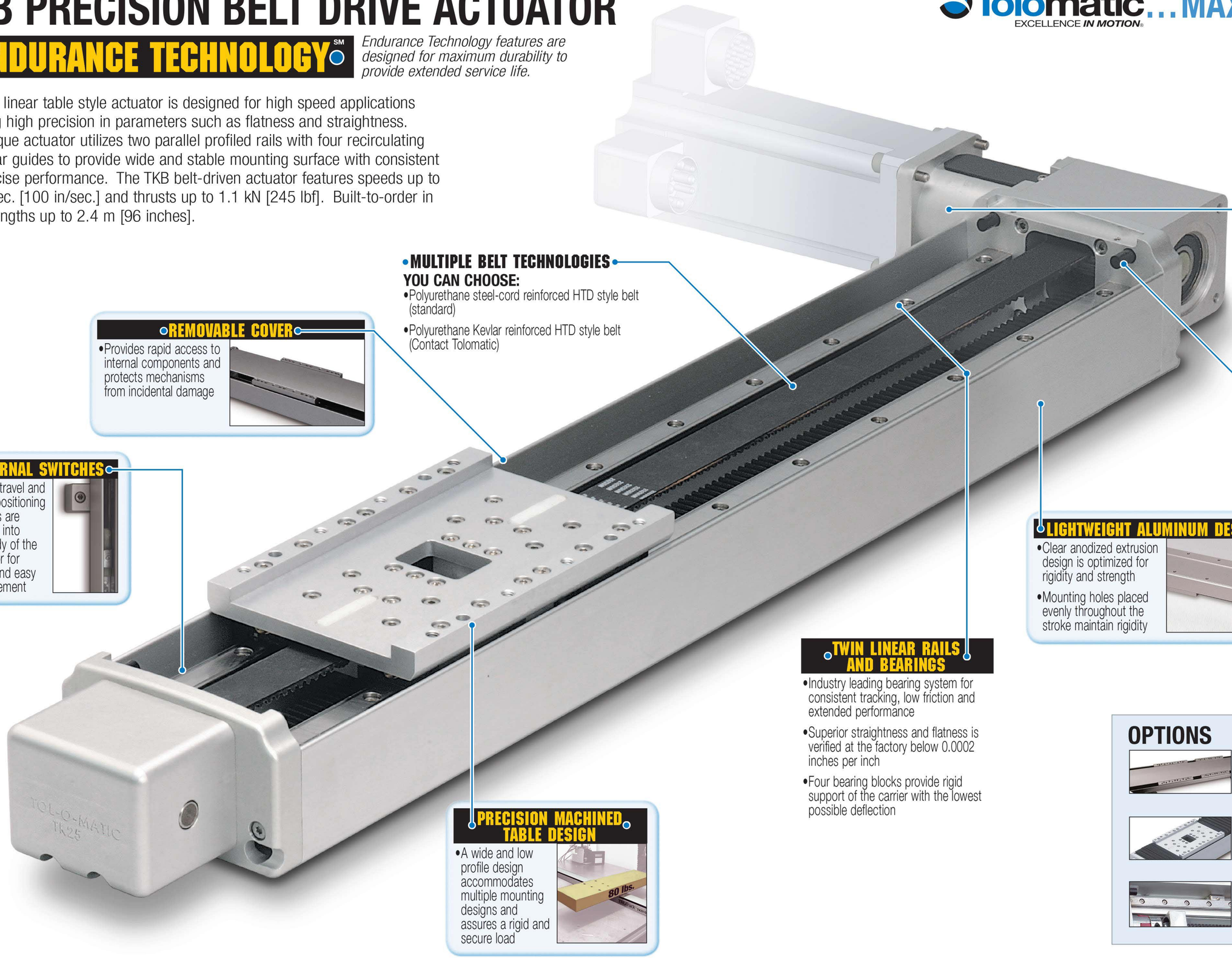
TKB PRECISION BELT DRIVE ACTUATOR

Tolomatic... MAXIMUM DURABILITY
EXCELLENCE IN MOTION®

ENDURANCE TECHNOLOGY℠

Endurance Technology features are designed for maximum durability to provide extended service life.

The TKB linear table style actuator is designed for high speed applications requiring high precision in parameters such as flatness and straightness. This unique actuator utilizes two parallel profiled rails with four recirculating ball linear guides to provide wide and stable mounting surface with consistent and precise performance. The TKB belt-driven actuator features speeds up to 2.5 m/sec. [100 in/sec.] and thrusts up to 1.1 kN [245 lbf]. Built-to-order in stroke lengths up to 2.4 m [96 inches].



MOTOR ORIENTATION

YOU CAN CHOOSE:

- Direct drive option directly couples the driving shafts and is a one-piece housing construction for optimum alignment and support of the motor
- Reduction drive option offers the ability to reduce the reflected inertia and lower the motor torque requirements

MULTIPLE BELT TECHNOLOGIES

YOU CAN CHOOSE:

- Polyurethane steel-cord reinforced HTD style belt (standard)
- Polyurethane Kevlar reinforced HTD style belt (Contact Tolomatic)

REMOVABLE COVER

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

EXTERNAL BUMPERS

- External bumpers, both ends, are standard
- Protect actuator and load from damage

INTERNAL SWITCHES

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

LIGHTWEIGHT ALUMINUM DESIGN

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

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

PRECISION MACHINED TABLE DESIGN

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

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