## MXB-S SOLID BEARING BELT-DRIVE

# ENDURANCE TECHNOLOGY designed for maximum durability provide extended service life.

Endurance Technology<sup>SM</sup> features are designed for maximum durability to

A Tolomatic Design Principle

The MXB-S rodless style actuator is a compact linear belt solution for use in applications requiring light to moderate load carrying and guidance. The MXB-S actuator utilizes two field replaceable solid bearings that optimize stress distribution for optimal performance, rigidity

and life. This economical actuator features speeds up to 2540 mm/sec (100 in/sec) and thrusts up to 1859 N (418 lbf). Built-to-order in stroke lengths up to 5080 mm (200 in).

#### LARGE FLEXIBLE **MOUNTING PATTERN**

- Carrier gives more load stability
- Directly compatible with existing BCS & BC2 applications
- More fastening options

#### BELT TENSIONING SYSTEM

The open slot on the guide plate permits easy access to the belt tensioning screw. No disassembly required

DURABLE

BELT

MATERIAL

polyurethane HTD

tooth profile belt

with steel tensile

members resists

stretching

High power

#### **EXTERNAL BUMPERS**

Polyurethane bumpers protect the belt and clamp assembly from damage at end-of-stroke

**OVERSIZED** 

Drive shaft assembly incorporates

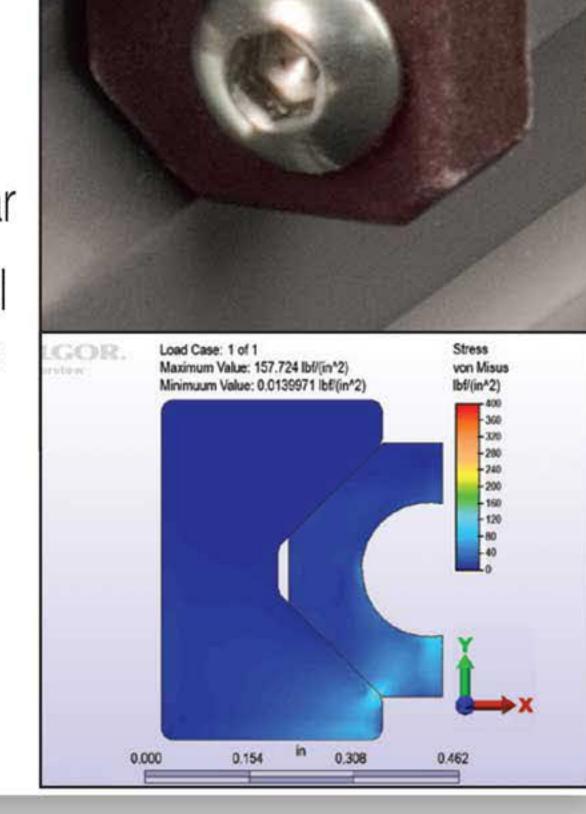
oversized shielded/sealed ball

PULLEY BEARINGS

bearings for long life and high speeds

#### **TRAPEZOIDAL** BEARINGS

- Trapezoidal design maximizes bearing surface area for less pressure on bearing surfaces; less pressure results in less wear
- Engineered bearing material has low static and dynamic friction with low wear properties for long lasting, smooth operation
- Bearings are field replaceable for extended service life





#### **MOTOR ORIENTATION**

#### YOU CAN CHOOSE:

- Direct drive option directly couples motor to the drive shaft; one-piece housing construction for optimum alignment and support of the motor
- Reduction option in 3:1 reduction (2:1 on MXB16)

#### YOUR MOTOR HERE

#### YOU CAN CHOOSE:

- Specify the device to be installed and actuator ships with proper mounting hardware
- Specify and ship your device to for factory installation
- Motor supplied and installed by Tolomatic

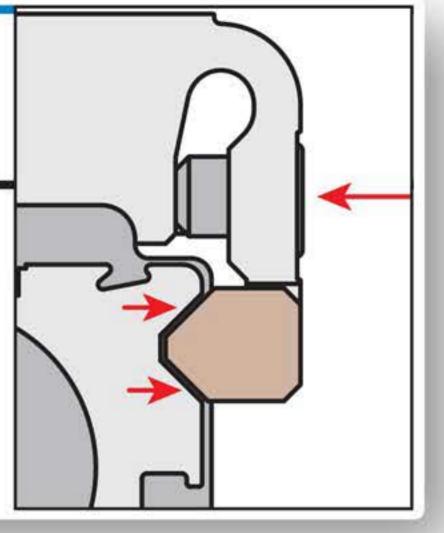
#### NON-BINDING **BEARING ARMS**

INCH OR METRIC MOUNTING

Your choice of blank, inch (US standard) or

metric mounting to the plate

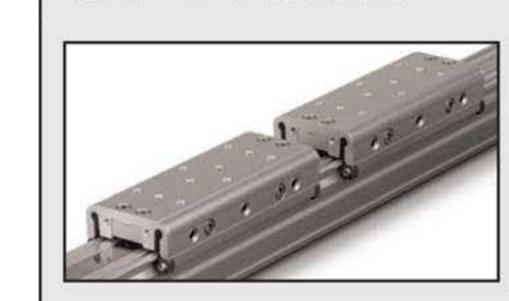
Bearings are tensioned indirectly, providing bind free adjustment



#### LIGHTWEIGHT **ALUMINUM DESIGN**

Clear anodized extrusion design is optimized for rigidity and strength

## **OPTIONS**



#### AUXILIARY CARRIER DC

 2X higher Fz (load) capacity High bending moment capacity



#### FLOATING MOUNT [F] [L]

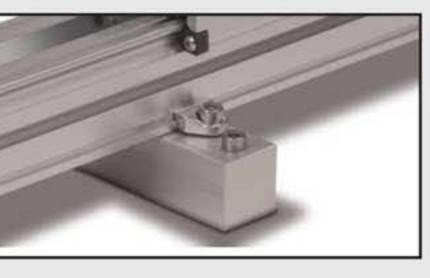
 Compensates for non-parallelism between MX actuator and externally guided load



### TUBE CLAMPS TC

- Used for intermediate support
- Flush with bottom of actuator to retain
- Drop-in, adjustable mounting locations (MXB16 uses T-nuts with mounting

NOTE: Boxed letters indicate ordering codes -



#### MOUNTING PLATES MP

 Provides clearance for motor and mount 16,25,32 sizes attach with T-Nuts 40,50,63 sizes attach with Tube Clamps



#### HEAD COVER PLATE [H]C[2]

Provides protection for pulley and bearing



#### **SWITCHES**

- Wide variety of sensing choices: Reed, Solid State PNP or NPN, available normally open or normally closed
- Flush mount, drop-in installation
- Bright LEDs, power & signal indication
- CE rated, RoHS compliant