MXB-P PROFILED RAIL BELT-DRIVE ACTUATOR

EXCELLENCE IN MOTION

Tolomatic...MAXIMUM DURABILITY

ENDURANCE TECHNOLOGY

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

A Tolomatic Design Principle

The MXB-P rodless electric belt-drive actuator is designed for applications requiring moderate to heavy load carrying and guidance. The MXB-P actuator features a profiled rail system with recirculating ball linear guides for optimal performance. The MXB-P belt-driven actuator features speeds up to 3810 mm/sec (150 in/sec) and thrusts up to 1859 N (418 lbf). Built-to-order in stroke lengths up to 5080 mm (200 in).

Your choice of blank, inch (US standard) or metric mounting to the plate

INCH OR METRIC MOUNTING

LIGHTWEIGHT **ALUMINUM DESIGN**

Clear anodized extrusion design is optimized for rigidity and strength

LOW CARRIER HEIGHT

- Reduces overall actuator envelope
- Large mounting pattern for excellent load stability

DURABLE BELT MATERIAL

High power polyurethane HTD tooth profile belt with steel tensile members resists stretching

OVERSIZED PULLEY BEARINGS

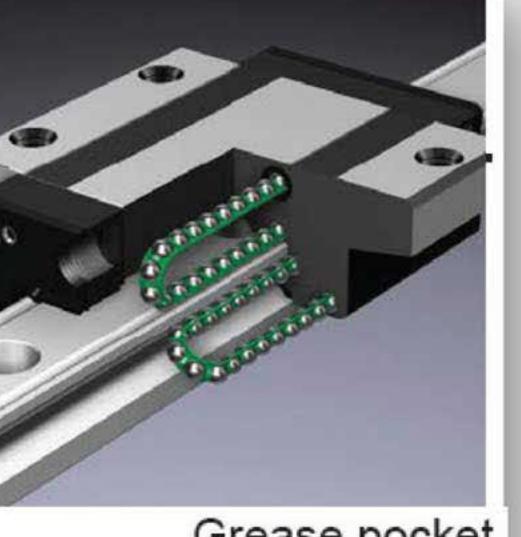
Drive shaft assembly incorporates oversized shielded/sealed ball bearings for long life and high speeds

BELT TENSIONING SYSTEM

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

RECIRCULATING **BALL BEARINGS**

- Recirculating ball bearings are used to reduce friction and extend actuator life
- Designed with a grease pocket between ball elements to reduce friction, noise and maintenance
- Large permissible moment loads
- High speed operation, low heat generation
- High precision, smooth, low friction





EXTERNAL BUMPERS

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

NOTE: Boxed letters indicate ordering codes _____

OPTIONS



AUXILIARY CARRIER DC

- 2X higher Fz & Fy (load) capacity
- High bending moment capacity



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



TUBE CLAMPS TC

- Used for intermediate support
- Flush with bottom of actuator to retain low profile
- Drop-in adjustable mounting locations (Not available on the 16, 25 or 32 MXB-P sizes)



HEAD COVER PLATE [H]C[2]

Provides protection for pulley and bearing



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

YOUR MOTOR HERE YOU CAN CHOOSE:

 Specify the device to be installed and actuator ships with proper mounting hardware

MOTOR ORIENTATION

Direct drive option directly couples motor to the drive

shaft; one-piece housing construction for optimum

Reduction option in 3:1 reduction (2:1 on MXB16)

YOU CAN CHOOSE:

alignment and support of the motor

- Specify and ship your device to for factory installation
- Motor supplied and installed by Tolomatic