# Axidyne® B3B/M3B Belt Drives

## APPLICATION BENEFITS

- Accommodate heavy loads
- Handle high moment loads with consistent, smooth operation
- Cost-effective alternative to auxiliary rail systems
- Longer strokes
- Higher speeds

## BEARING SYSTEM

- Heavy duty recirculating bearings in gothic arch rail guide
- Wear resistance with repeatable accuracy
- Patented * sealed bearing system —for long life
- High load and moment capacities
- Consistent tracking for full actuator life

## STANDARD MOUNTING

- B3B actuators have T-nut mounting in the body base with four T-nuts for the first 24 inches of stroke. Two nuts are provided for each additional 20 inches.

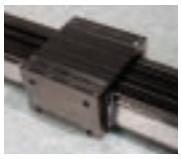
## ACTUATOR/MOTOR FACTORS

- Actuator's operating temperature range (40-130°F, 4-45° C) should take into consideration heat generated by the motor and drive, linear velocity and work cycle time.
- For large frame motors or small actuators, cantilevered motors need to be supported, if subjected to continuous rapid reversing duty and/or under dynamic conditions.

## AVAILABLE OPTIONS

***Tube Supports:*** Provide intermediate support of actuator body at the recommended intervals.

***Auxiliary Carrier:*** Increases rigidity, load-carrying capacity and bending moments



***Dual 180° Carrier:*** Allows load to be rotated 90° from the cylinder's carrier, providing an additional load bearing surface. Requires its own proprietary tube supports and foot mounts.

***Auxiliary Dual 180° Carrier:*** Substantially increases loads and moments.

***Mounting Plates:*** Provide clearance height for motors and motor mounts when mounting an actuator on a flush surface and provide the means for top mounting access. Kits include plates and mounting screws.

***Motor Mounting and Gearhead Reduction***

*Direct-Drive* —Drive motor is mounted directly to the drive end assembly.

*Reduction Drive*—Mounts the motor to the reduction assembly, providing a 3:1 speed reduction from the motor to the belt drive wheel.

*Gearheads*— available for applications requiring reduction for inertia matching or higher torque at lower speeds. High efficiency, single stage, true planetary gearheads are available in 5.5:1 and 10:1 ratios for reduction solutions with most Tol-O-Matic NEMA 23 and 34 face motors.

For gearhead specifications and dimensions, see page F-10.

***Switches:*** Reed, dc Hall-effect and ac TRIAC.
See section I.

* U.S. Patent No. 5,555,789