

RODLESS BELT-DRIVE ACTUATOR W/ SOLID BEARINGS

MXB-S

The MXB-S rodless style actuator is a pre-assembled compact linear belt solution for use in applications requiring light to moderate load carrying and guidance. 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).

OVERSIZED PULLEY BEARINGS

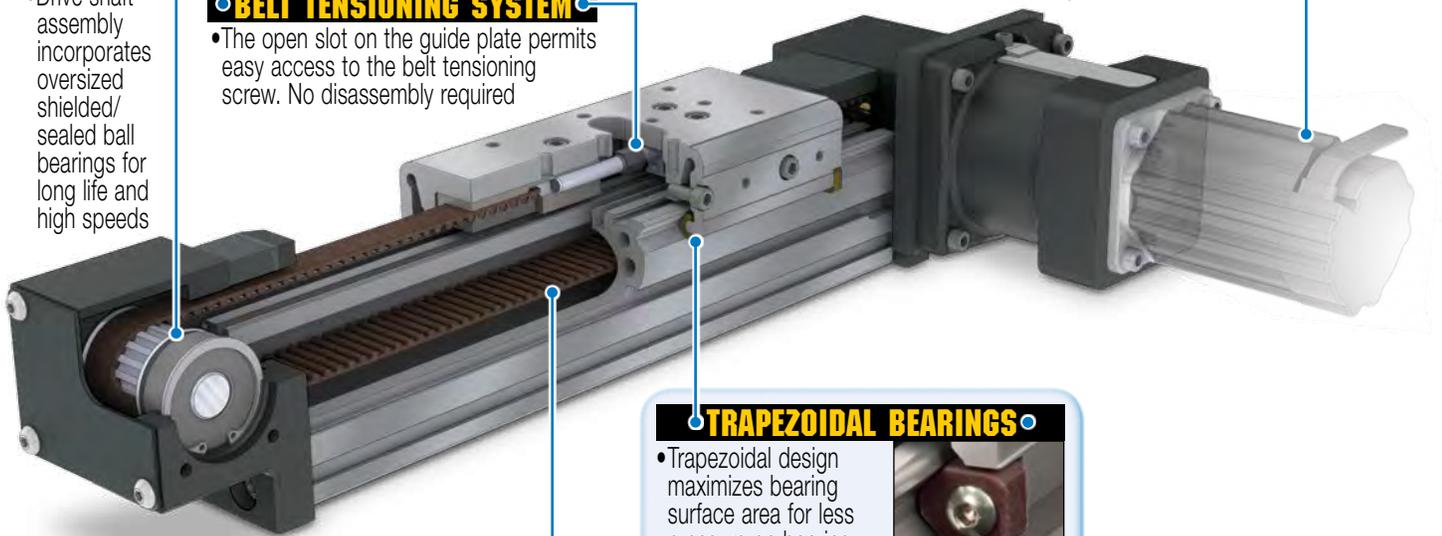
- Drive shaft assembly incorporates oversized shielded/sealed ball bearings for long life and high speeds

BELT TENSIONING SYSTEM

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

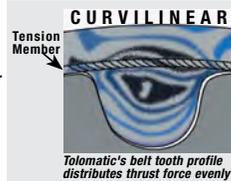
YOUR MOTOR HERE

- YOU CAN CHOOSE:**
- Choose ACSI (Integrated servo motor/drive) for a complete motion solution tested and assembled at the factory



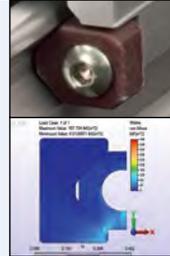
STEEL REINFORCED / HTD BELT PROFILE

- Belt of polyurethane material reinforced with steel tension members to produce high carrier thrusts without belt stretch.



TRAPEZOIDAL BEARINGS

- Trapezoidal design maximizes bearing surface area for less pressure on bearing surfaces; less pressure results in less wear



Applications:

- Aligning marking
- Animation
- Assembly
- Camera positioning
- Conveyors
- Cutting
- Diverters
- Inspection
- Laser
- Material cutting
- Packaging equipment
- Parts transfer
- Pick & place
- Positioning
- Product handling
- Slitting
- Sorting
- Spraying
- Stacking
- Table positioning
- Test stations

Available Options:

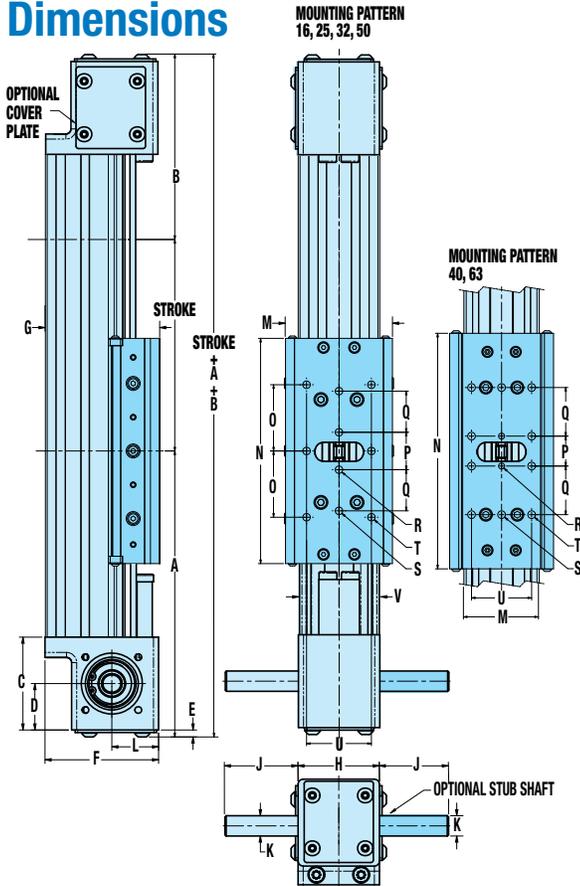
Mounting
Mounting Plates,
Tube Clamps,
Floating Mount

Sensors
With integrated mounting

RODLESS BELT-DRIVE ACTUATOR W/ SOLID BEARINGS

MXB-S

Dimensions



| | MXB16 | MXB25 | MXB32 | MXB40 | MXB50 | MXB63 |
|---|-------|-------|-------|-------|-------|-------|
| A | 135.3 | 173.9 | 179.3 | 216.6 | 217.8 | 275.1 |
| B | 119.0 | 139.3 | 163.2 | 192.7 | 212.0 | 262.1 |
| C | 50.8 | 58.0 | 55.9 | 78.7 | 82.6 | 96.1 |
| D | 25.4 | 29.0 | 25.4 | 39.4 | 40.0 | 45.3 |
| E | 3.8 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| F | 52.8 | 66.0 | 77.5 | 93.8 | 110.6 | 139.3 |
| G | 45.8 | 58.4 | 77.8 | 89.2 | 112.8 | 139.7 |
| H | 44.5 | 50.8 | 69.9 | 82.6 | 98.4 | 111.1 |

Measurements in mm

Specifications

| MXB SIZE | MAX. THRUST N | BELT DEAD LENGTH mm | MAXIMUM STROKE* mm | MAX. BENDING MOMENTS | | | MAX. LOAD Fz | |
|----------|------------------|------------------------|-----------------------|----------------------|------|-------|-----------------|-------|
| | | | | Mx | My | Mz | | |
| SIZE | N-m | N-m | N-m | N | | | | |
| 16 | 169 | 363.0 | 5842 | 16 | 2.5 | 2.1 | 2.8 | 156 |
| 25 | 672 | 475.5 | 5181 | 25 | 6.8 | 12.4 | 3.8 | 311 |
| 32 | 930 | 556.0 | 5156 | 32 | 11.3 | 39.5 | 15.8 | 667 |
| 40 | 1112 | 633.7 | 5130 | 40 | 31.1 | 67.8 | 24.9 | 1,001 |
| 50 | 1446 | 692.2 | 5130 | 50 | 35.6 | 131.0 | 38.5 | 1,401 |
| 63 | 1859 | 917.2 | 2590 | 63 | 66.1 | 264.0 | 58.8 | 2,313 |

Max. Velocity 2540 mm/sec

Temp. Range -12 to 54 °C

Repeatability ± 0.051 mm

| | MXB16 | MXB25 | MXB32 | MXB40 | MXB50 | MXB63 |
|---------|---------------|---------------|----------------|----------------|----------------|----------------|
| (LMI) J | 15.0 | 57.7 | 57.7 | 47.5 | 47.5 | 47.5 |
| (RP) J | 46.6 | 57.7 | 57.7 | 47.5 | 47.5 | 47.5 |
| K | Ø9.53 | Ø12.70 | Ø12.70 | Ø12.70 | Ø12.70 | Ø12.70 |
| L | 26.4 | 29.2 | 27.9 | 39.7 | 41.5 | 52.2 |
| M | 40.1 | 55.4 | 72.6 | 88.2 | 104.1 | 142 |
| N | 110.0 | 134.9 | 153 | 200 | 200.9 | 307.6 |
| O | 30.0 | 39.9 | 45.0 | - | 47.8 | - |
| P | - | 25.4 | 25.4 | 25.4 | 63.5 | 76.2 |
| Q | - | 27.2 | 28 | 41.3 | 31.8 | 38.1 |
| R | - | M6x1.0 (2) | M8x1.25 (2) | M8x1.25 (2) | M10x1.5 (2) | M10x1.5 (2) |
| S | - | M6x1.0 (2) | M8x1.25 (2) | M8x1.25 (2) | M10x1.5 (2) | M10x1.5 (2) |
| T | M4x0.7 (6) | M6x1.0 (6) | M8x1.25 (6) | M8x1.25 (8) | M10x1.5 (6) | M10x1.5 (8) |
| U | 30.0 | 30.0 | 44.0 | 51.0 | 65.8 | 82.6 |
| V | 30.00 | 42.00 | 55.37 | 64.00 | 78.74 | 100.00 |

ACTUATOR SIZING

COMPLETE INFORMATION, SIZING SOFTWARE AND SOLID MODELS AVAILABLE AT: www.tolomatic.com

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