Tolomatic™
EXCELLENCE *IN MOTION*

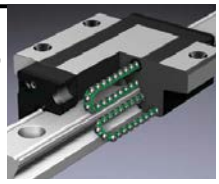
RODLESS BELT-DRIVE ACTUATOR W/ PROFILED RAIL

MXB-P

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 features speeds up to 3,810 mm/sec (150 in/sec) and thrusts up to 1,859 N (418 lbf). Built-to-order in stroke lengths up to 10.5 m (414 in).

RECIRCULATING BALL BEARINGS

High precision recirculating ball bearings allow smooth, high speed operation and permit large moment loads

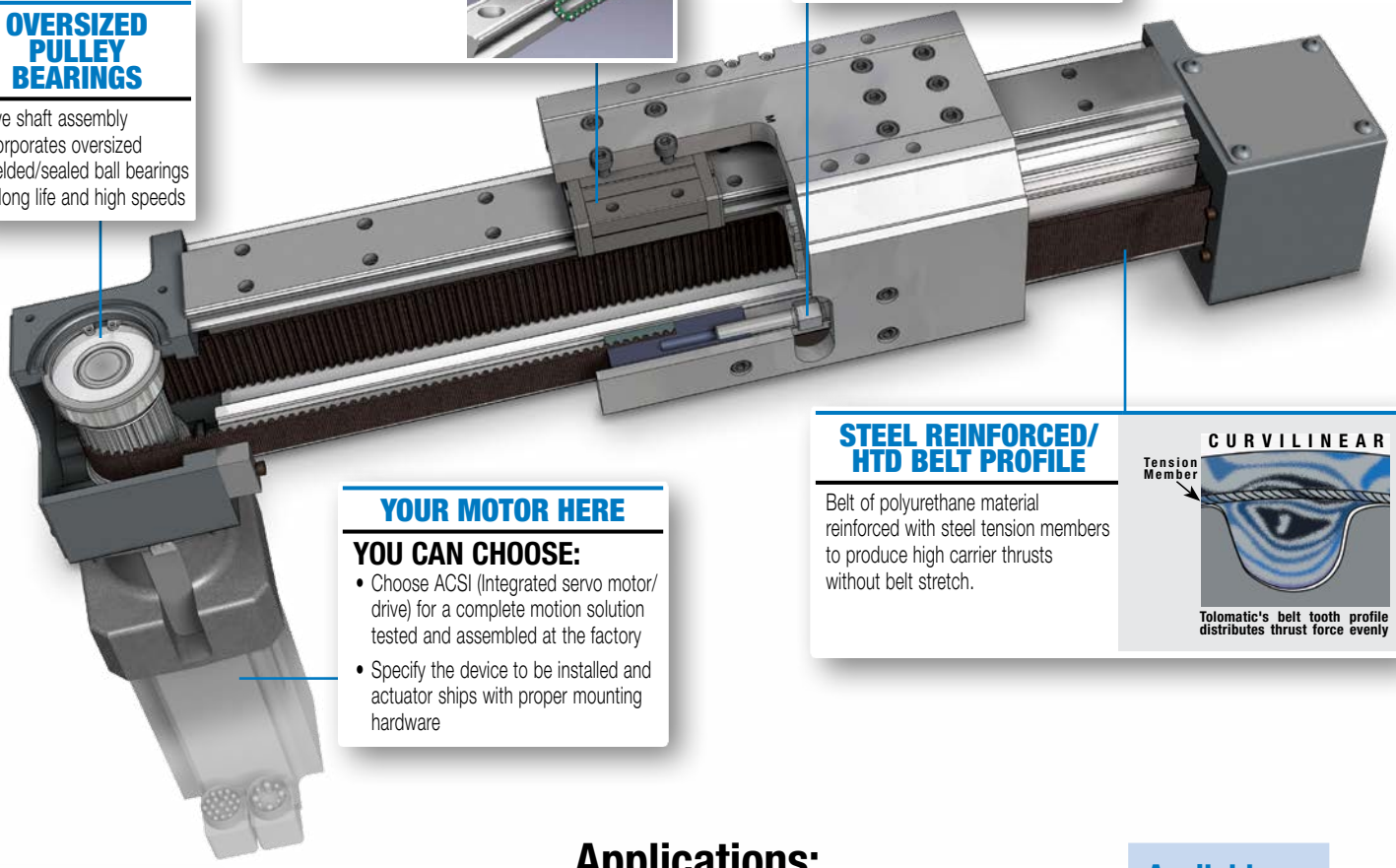


BELT TENSIONING SYSTEM

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

OVERSIZED PULLEY BEARINGS

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



YOUR MOTOR HERE

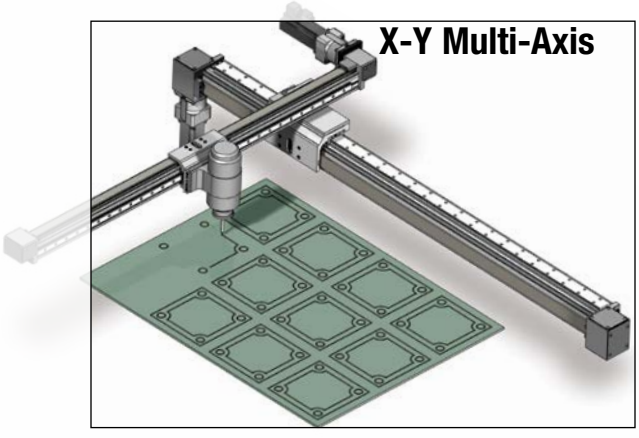
YOU CAN CHOOSE:

- Choose ACSI (Integrated servo motor/drive) for a complete motion solution tested and assembled at the factory
- Specify the device to be installed and actuator ships with proper mounting hardware

STEEL REINFORCED/ HTD BELT PROFILE

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

Tolomatic's belt tooth profile distributes thrust force evenly



Applications:

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

Available Options:

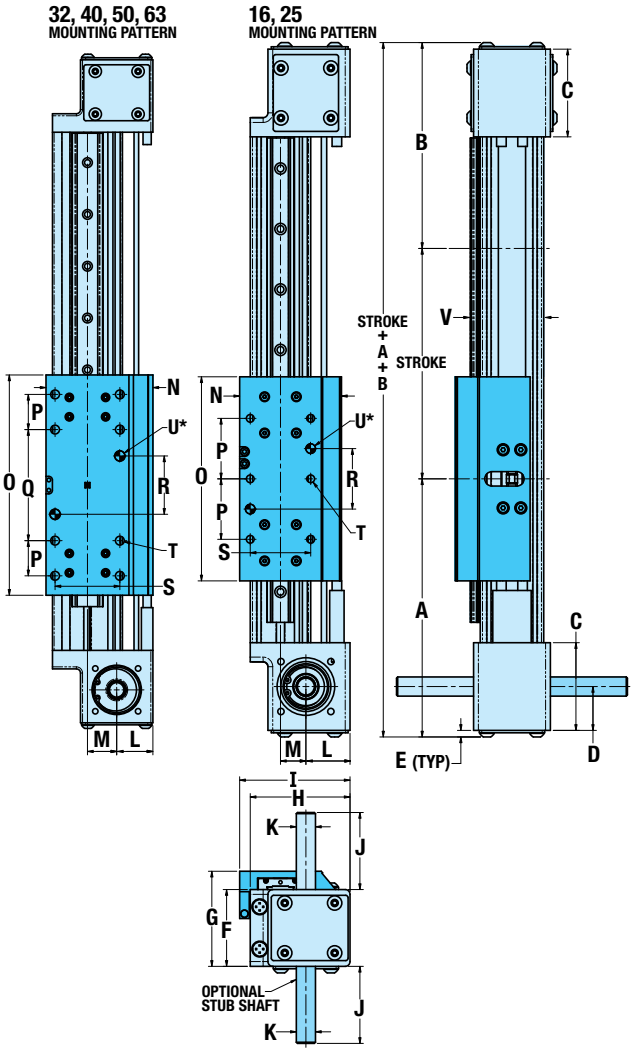
Mounting
Mounting Plates, Tube Clamps,

Sensors
With integrated mounting

RODLESS BELT-DRIVE ACTUATOR W/ PROFILED RAIL

MXB-P

Dimensions



	MXB16	MXB25	MXB32	MXB40	MXB50	MXB63
A	135.3	173.9	187.8	216.6	224.7	275.1
B	119.0	139.3	154.7	192.7	205.0	262.1
C	50.8	58.0	55.9	78.7	82.6	96.1

Measurements in mm

Specifications

MXB SIZE	MAX. THRUST	BELT DEAD LENGTH	MAXIMUM STROKE**
	N	mm	mm
16	169	363.0	5,842
25	672	475.5	10,516
32	930	556.0	10,490
40	1,112	633.7	10,465
50	1,446	692.2	10,414
63	1,859	917.2	5,512

SIZE	MAX. BENDING MOMENTS			MAX. LOAD
	Mx	My	Mz	Fy & Fz
	N-m	N-m	N-m	kg
16	5.3	46	46	118
25	17	51	51	244
32	31	182	182	310
40	82	259	259	401
50	110	472	472	552
63	138	724	724	703

Max. Velocity	3,810 mm/sec
Repeatability	± 0.051 mm

Temp. Range	-12 to 54 °C

**Longer stroke length available, up to 40 feet (12.2m), contact Tolomatic

	MXB16	MXB25	MXB32	MXB40	MXB50	MXB63
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	44.5	50.8	69.9	82.6	98.4	111.1
G	53.2	62.9	84.6	98.7	129.6	145.6
H	52.8	66.0	77.5	93.8	110.6	139.3
I	54.8	73.0	82.5	103.9	117.9	147.1
J(LMI)	15.0	57.7	57.7	47.5	47.5	47.5
J(RP)	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	11.4	16.8	22.6	22.2	29.8	37.1
N	45.3	67.4	82.5	97.8	117.4	150.6
O	110.0	135.0	170.0	200.0	216.0	304.8
P	40.0	40.0	27.1	25.4	25.4	40.0
Q	—	—	85.7	114.3	69.8	130.0
R	40.00	40.00	45.00	63.50	38.10	65.00
S	28.00	40.00	50.00	72.00	79.38	98.30
T	M4x0.7	M6x1.0	M8x1.25	M8x1.25	M8x1.25	M10x1.5
U	Ø4.045 / 4.020 ↧6.35	Ø6.045 / 6.020 ↧6.35	Ø8.045 /8.020 ↧9.53	Ø8.045 /8.020 ↧12.70	Ø8.045 /8.020 ↧12.70	Ø10.045 /10.020 ↧12.70
V	30.00	40.00	54.00	64.00	78.74	100.00

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EXCELLENCE IN MOTION

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