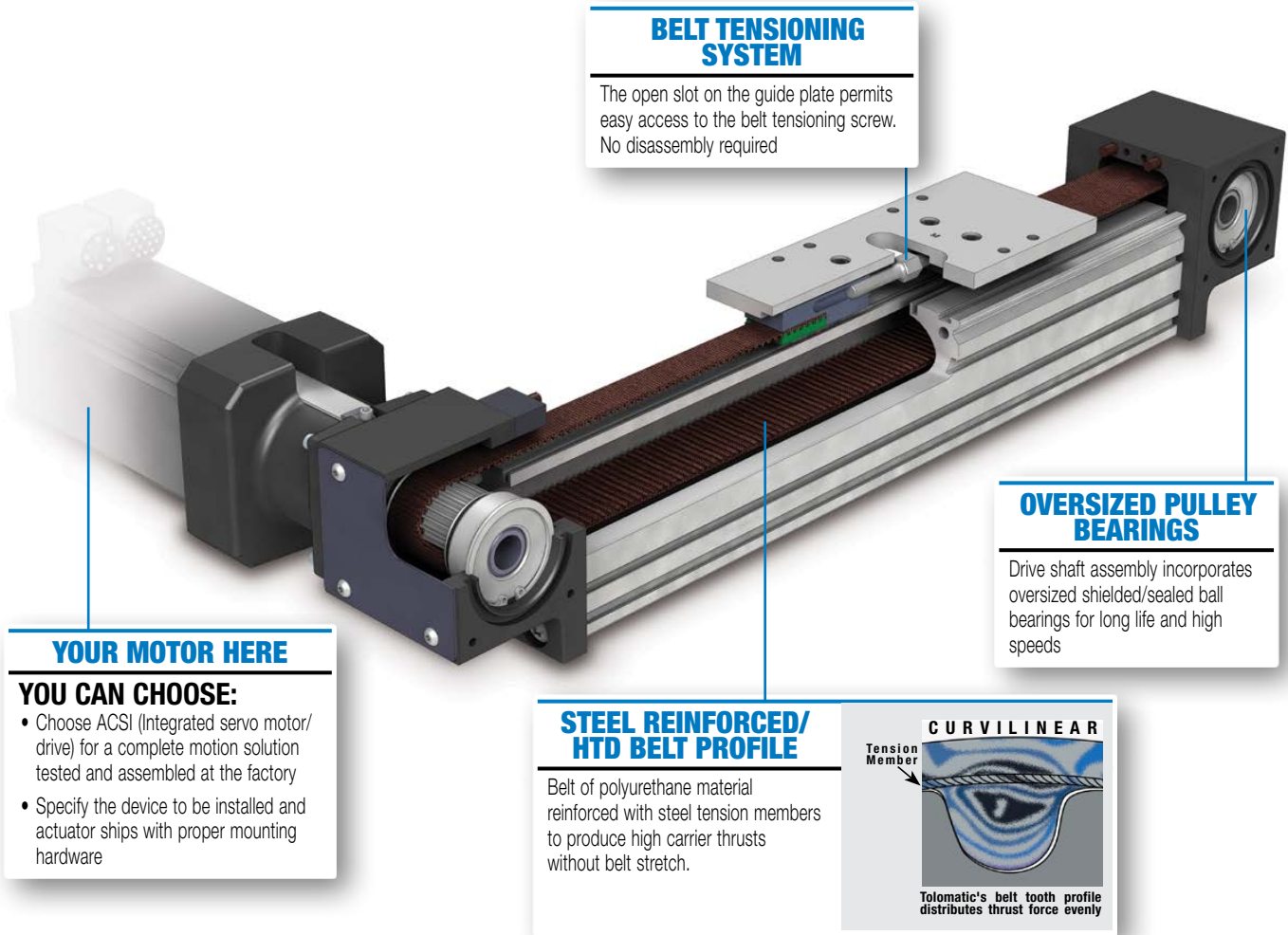


# UNGUIDED RODLESS BELT-DRIVE ACTUATOR

The MXB-U rodless actuator is a pre-assembled compact linear belt solution for use in applications with existing guides & supports. This economical actuator features speeds up to 5080 mm/sec (200 in/sec) and thrusts up to 1859N (418 lbf). Built-to-order in stroke lengths up to 10.5 m (414 in).

# MXB-U



### 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

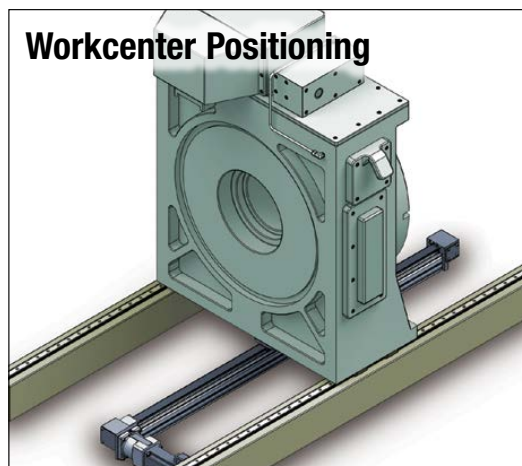
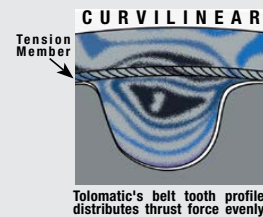
### YOUR MOTOR HERE

#### 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.



### Workcenter Positioning

## 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:

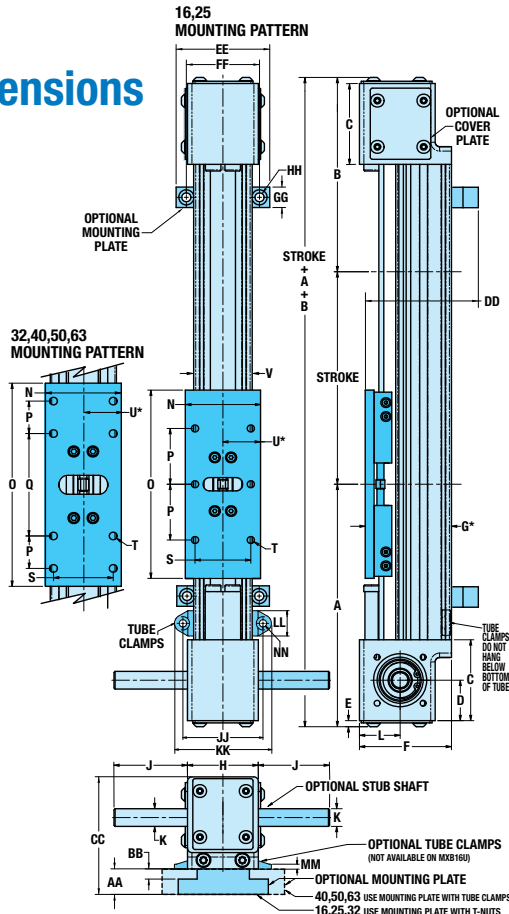
**Mounting**  
Mounting Plates,  
Tube Clamps

**Sensors**  
With integrated  
mounting

# UNGUIDED RODLESS BELT-DRIVE ACTUATOR

# MXB-U

## Dimensions



	MXB16	MXB25	MXB32	MXB40	MXB50	MXB63
<b>A</b>	135.3	173.9	187.8	216.6	224.7	275.1
<b>B</b>	119.0	139.3	154.7	192.7	205.0	262.1
<b>C</b>	50.8	58.0	55.9	78.7	82.6	96.1
<b>D</b>	25.4	29.0	25.4	39.4	40.0	45.3
<b>E</b>	3.8	4.4	4.4	4.4	4.4	4.4
<b>F</b>	52.8	66.0	77.5	93.8	110.6	139.3
<b>G*</b>	45.3	61.9	77.4	88.3	109.6	135.5
<b>H</b>	44.5	50.8	69.9	82.6	98.4	111.1
<b>J (LMI)</b>	15.0	57.7	57.7	47.5	47.5	47.5
<b>J (RP)</b>	46.6	57.7	57.7	47.5	47.5	47.5
<b>K</b>	Ø9.53	Ø12.70	Ø12.70	Ø12.70	Ø12.70	Ø12.70
<b>L</b>	26.4	29.2	27.9	39.7	41.5	52.2
<b>N</b>	34.9	54.0	63.5	88.9	95.3	114.3

Measurements in mm

## Specifications

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

<b>Max. Velocity</b>	5,080 mm/sec
<b>Repeatability</b>	± 0.051 mm
<b>Temp. Range</b>	-12 to 54 °C

	MXB16	MXB25	MXB32	MXB40	MXB50	MXB63
<b>O</b>	110.0	135.0	170.0	200.0	216.0	304.8
<b>P</b>	40.0	40.0	27.1	25.4	25.4	40.0
<b>Q</b>	-	-	87.7	114.3	69.8	130.0
<b>S</b>	28.0	40.0	50.0	72.0	79.4	98.3
<b>T</b>	M4x0.7	M6x1.0	M8x1.25	M8x1.25	M8x1.25	M10x1.5
<b>U*</b>	17.5	27.0	31.8	44.5	47.7	57.2
<b>V</b>	30.00	42.00	55.37	64.00	78.74	100.00

### OPTIONAL MOUNTING PLATES

<b>AA</b>	15.9	15.9	19.1	25.4	31.8	25.4
<b>BB</b>	6.4	6.4	7.6	-	-	-
<b>CC</b>	68.7	81.9	96.5	119.4	119.4	164.6
<b>DD</b>	60.9	77.7	95.2	106.1	127.4	153.3
<b>EE</b>	60.0	63.5	86.4	127.0	142.2	203.2
<b>FF</b>	44.5	50.8	59.9	112.0	127.0	177.8
<b>GG</b>	25.4	25.4	25.4	20.1	20.1	25.4
<b>HH</b>	Ø5.6 THRU └┘Ø9.4 ▽5.6 (2)	Ø5.6 THRU └┘Ø9.4 ▽5.6 (2)	Ø7.1 THRU └┘Ø11.2 ▽7.1 (2)	Ø7.1 THRU (2)	Ø7.1 THRU (2)	Ø7.1 THRU (2)

### OPTIONAL TUBE CLAMPS

	MXB16	MXB25	MXB32	MXB40	MXB50	MXB63
<b>JJ</b>	-	57.0	74.1	82.7	97.5	131.7
<b>KK</b>	-	69.0	87.4	96.7	111.5	150.7
<b>LL</b>	-	18.0	16.0	14.0	14.0	19.0
<b>MM</b>	-	3.6	4.3	3.8	3.8	6.1
<b>NN</b>	-	5.2	7.1	7.1	7.1	10.7

▲\*In order for the actuator to operate properly, dimensions "G" and "U" must not vary more than ±0.51mm over the entire length of the stroke.



MADE IN U.S.A.

**Tolomatic**<sup>TM</sup>  
EXCELLENCE IN MOTION

COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV  
= ISO 9001 =  
Certified site: Hamel, MN

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