

RODLESS BELT-DRIVE ACTUATOR W/ PROFILED RAIL

MXB-P

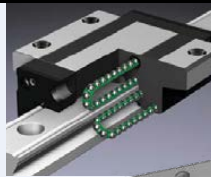
Designed for applications requiring moderate to heavy load carrying and guidance, the MXB-P actuator features a profiled rail system with recirculating ball linear guides for optimal performance. The MXB-P features speeds up to 3810 mm/sec (150 in/sec) and thrusts up to 1859 N (418 lbf). Built-to-order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

OVERSIZED PULLEY BEARINGS

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

RECIRCULATING BALL BEARINGS

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

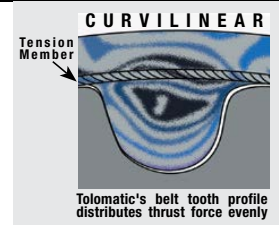


BELT TENSIONING SYSTEM

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

STEEL REINFORCED /HTD BELT PROFILE

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

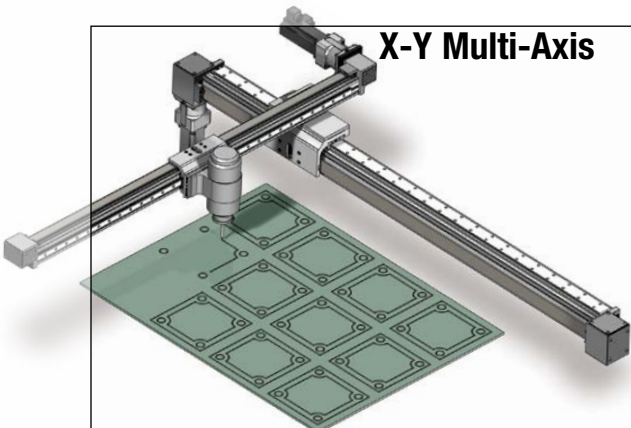


YOUR MOTOR HERE

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

X-Y Multi-Axis



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:

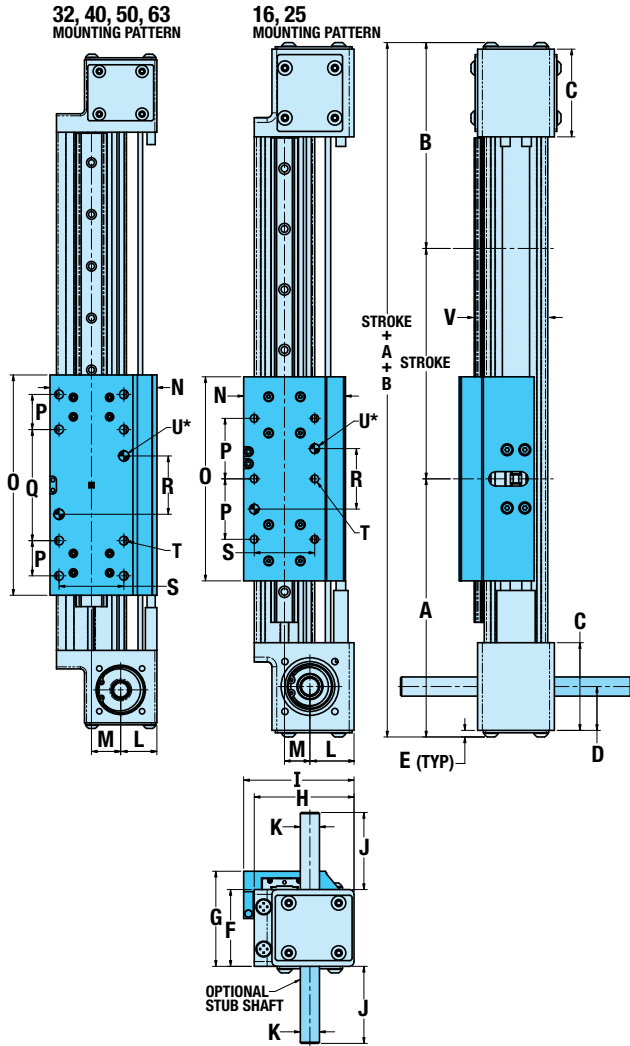
Mounting
Mounting Plates,
Tube Clamps,

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 N	BELT DEAD LENGTH mm	MAXIMUM STROKE* mm
16	169	363.0	5842
25	672	475.5	5181
32	930	556.0	5156
40	1112	633.7	5130
50	1446	692.2	5130
63	1859	917.2	2590

SIZE	MAX. BENDING MOMENTS			MAX. LOAD
	Mx N-m	My N-m	Mz N-m	Fy & Fz N
16	4.5	38.3	38.3	966
25	14.3	56.7	42.6	1,996
32	25.6	152.0	152.0	2,531
40	68.2	216.0	216.0	3,274
50	91.7	394.0	394.0	4,510
63	115.0	603.0	603.0	5,745

Max. Velocity	3810 mm/sec
Repeatability	± 0.051 mm

Temp. Range	-12 to 54 °C
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	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 Ø4.045 / 4.020 ▽6.35	M6x1.0 Ø6.045 / 6.020 ▽6.35	M8x1.25 Ø8.045 / 8.020 ▽9.53	M8x1.25 Ø8.045 / 8.020 ▽12.70	M8x1.25 Ø8.045 / 8.020 ▽12.70	M10x1.5 Ø10.045 / 10.020 ▽12.70
U	30.00	40.00	54.00	64.00	78.74	100.00
V	30.00	40.00	54.00	64.00	78.74	100.00

ACTUATOR SIZING

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

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