Tolomatic™
EXCELLENCE *IN MOTION*

PROFILED RAIL RODLESS ELECTRIC ACTUATORS

MXE-P

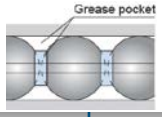
The MXE-P rodless electric screw-drive actuator is designed for applications requiring moderate to heavy load carrying and guidance. The MXE-P actuator features a profiled rail system with recirculating ball linear guides for optimal performance.

RECIRCULATING BALL BEARINGS

- Recirculating design with a grease pocket between ball elements to reduce friction, noise, maintenance and extend actuator life



- High speed, high precision operation, with low heat generation and large permissible moment loads



LIGHTWEIGHT ALUMINUM DESIGN

Clear anodized extrusion design is optimized for rigidity and strength

YOUR MOTOR HERE

- Wide variety of standard motor mounts machined to your motor of choice. Includes mounting hardware and couplers
- Inline or reverse parallel (foldback) motor mounting options

STAINLESS STEEL DUST BAND

Durable, flexible, fatigue and corrosion resistant stainless steel band is magnetically retained. The dust band keeps contaminants from entering the actuator interior, protecting components for reduced maintenance and increased uptime

MULTIPLE SCREW TECHNOLOGIES

YOU CAN CHOOSE:

- Solid nuts of bronze or engineered resins offer quiet performance at the lowest cost; anti-backlash available

- Ball screws offer positioning accuracy and repeatability with longer life; low-backlash available

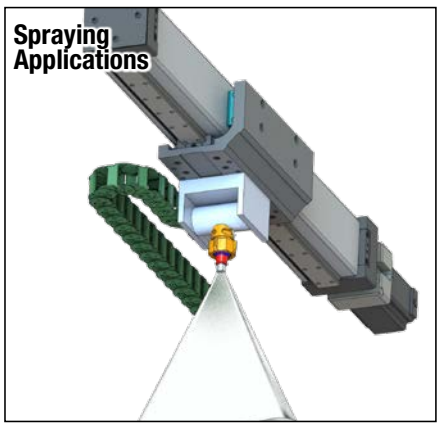


Available Options:

Mounting
Mounting Plates; Tube Clamps

Carrier
Auxiliary Carrier

Sensors
Reed, Solid State PNP or NPN, flush mount, drop in installation



Applications:

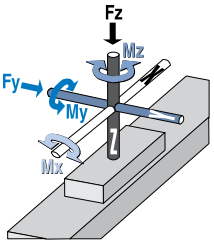
- Adhesive Dispensing
- Applying
- Camera Positioning
- Cutting
- High Speed Flying Cut Off
- Inspecting
- Material Cutting
- Multi Axis
- Parts Transfer
- Pick & Place
- Product Handling
- Slitting
- Stacking
- Storage, Retrieval
- Sorting
- X-Y Gantry, Multi Axis
- Test Functions
- Test Stations
- and many more

PROFILED RAIL RODLESS ELECTRIC ACTUATORS

MXE-P

STANDARD CARRIER

SIZE	MAX. BENDING MOMENTS						MAX. LOAD				MAX. THRUST			
	Mx		My		Mz		Fy		Fz		Solid Nut		Ball Screw	
	N-m	*in-lbs*	N-m	*in-lbs*	N-m	*in-lbs*	kg	*lb*	kg	*lb*	N	*lbf*	N	*lbf*
16	5.3	*47*	46	*406*	46	*406*	118	*261*	118	*261*	200	*45*	—	—
25	17	*151*	68	*602*	68	*602*	244	*539*	244	*539*	756	*170*	578	*130*
32	31	*272*	182	*1,613*	182	*1,613*	310	*683*	310	*683*	756	*170*	578	*130*
40	82	*725*	259	*2,296*	259	*2,296*	401	*883*	401	*883*	1,334	*300*	3,559	*800*
50	110	*974*	472	*4,180*	472	*4,180*	552	*1,217*	552	*1,217*	1,335	*300*	12,010	*2,700*
63	138	*1,223*	724	*6,407*	724	*6,407*	703	*1,550*	703	*1,550*	1,779	*400*	19,127	*4,300*

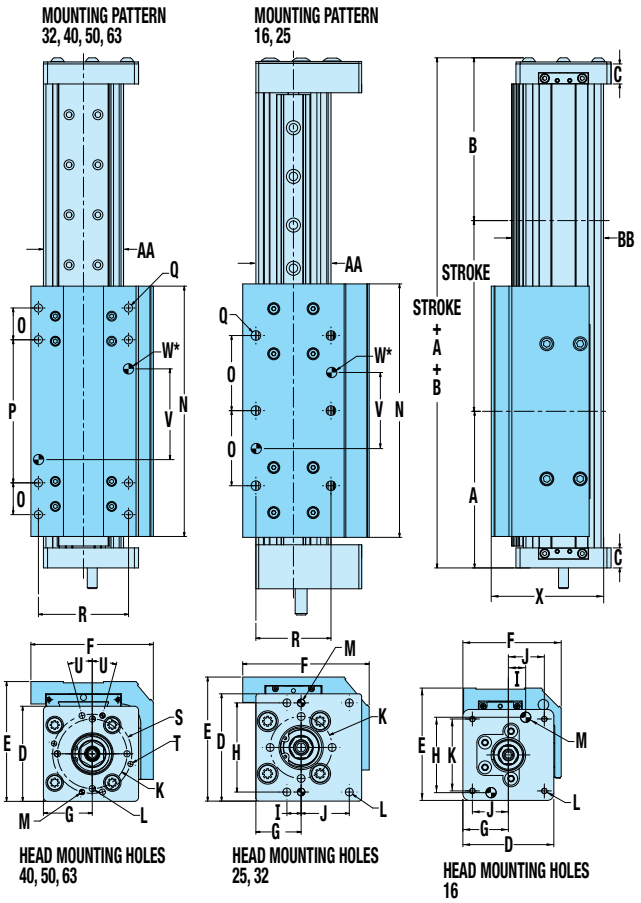


NOTE: Auxiliary Carrier option nearly doubles maximum bending moments and load, see MXE brochure 8300-4000 for complete details.

Dimensions

	MXE16	MXE25	MXE32	MXE40	MXE50	MXE63
A	69.1	96.3	100.9	125.2	141.7	211.3
B	72.1	100.6	105.1	130.0	147.8	216.2
C	12.7	23.4	12.7	16.0	33.3	47.8
D	42.2	57.2	55.4	75.9	88.0	110.0
E	52.1	66.1	77.4	95.7	124.5	145.0
F	45.7	67.4	82.6	97.8	117.3	143.5
G	21.1	24.1	30.7	39.1	46.2	58.4
H	35.1	47.5	47.5	-	-	-
I	8.1	7.6	7.6	-	-	-
J	16.8	25.7	25.7	-	-	-
K	33.3	Ø33.0	Ø33.0	Ø55.6	Ø68.3	Ø55.6
L	M3x0.5 (4)	M5x0.8 (8)	M5x0.8 (8)	M6x1.0 (4)	M6x1.0 (4)	M6x1.0 (4)
M	Ø4.78 (2)	Ø4.01 (2)	Ø4.01 (2)	Ø4.80 (2)	Ø4.78 (2)	Ø4.78 (2)
N	110.0	135.0	170.0	200	215.9	207.6
O	40.0	40.0	27.2	25.4	25.4	39.9
P	-	-	85.6	114.3	69.9	130.0
Q	M4x0.7 (6)	M6x1.0 (6)	M8x1.25 (8)	M8x1.25 (8)	M8x1.25 (8)	M10x1.5 (8)
R	28.00	40.00	50.00	72.00	79.38	98.30
S	-	-	-	Ø63.2	Ø76.5	Ø76.5
T	-	-	-	M5x0.8 (4)	M5x0.8 (4)	M5x0.8 (4)
U	-	-	-	15°	15°	15°
V	40.00	40.00	45.00	63.50	38.10	65.00
W*	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
X	46.0	58.5	77.4	89.7	119.7	140.0
AA	30.00	40.00	54.00	64.00	78.74	100.00
BB	35.50	48.60	62.87	73.50	93.74	115.00

Dimensions in millimeters • See MXE brochure 8300-4000 for complete dimension details



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