

ENDURANCE TECHNOLOGY

A Tolomatic Design Principle

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.

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

RECIRCULATING BALL BEARINGS

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





LIGHTWEIGHT **ALUMINUM DESIGN**

Clear anodized extrusion design is optimized for rigidity and strength

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

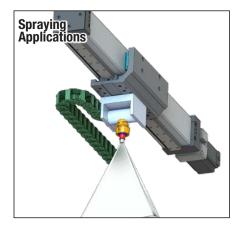


Available Options:

Mounting Mounting Plates; Tube Clamps

Carrier Auxiliary Carrier

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



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Applications:

- Adhesive Dispensing
- Applying
- Camera Positioning
- Cutting
- High Speed Flying Cut Off
- InspectingMaterial 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

STANDARD CARRIER

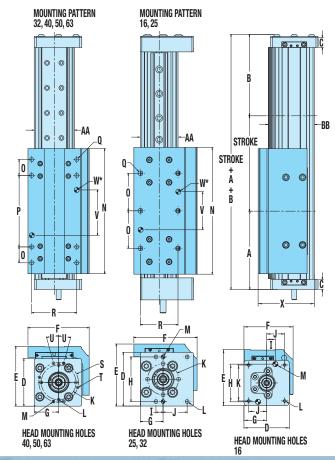
MAX. BENDING MOMENTS						MAX. LOAD				MAX. THRUST			
ZIS Mx		Му		Mz		Fy		Fz		Solid Nut		Ball Screw	
N-m	in-lbs	N-m	in-lbs	N-m	in-lbs	N	lb	N	lb	N	lbf	Ν	lbf
4.5	39	38.3	339	38.3	339	966	217	966	217	200	45	—	—
14.3	126	56.7	502	42.6	377	1,996	449	1,996	449	756	170	578	130
25.6	226	152	1,344	152	1,344	2,531	569	2,531	569	756	170	578	130
68.2	604	216	1,913	216	1,913	3,274	736	3,274	736	1,334	300	3,559	800
91.7	811	394	3,483	394	3,483	4,510	1,014	4,510	1,014	1,335	300	12,010	2,700
115	1,019	603	5,339	603	5,339	5,745	1,292	5,745	1,292	1,779	400	19,127	4,300
	N-m 4.5 14.3 25.6 68.2 91.7	N-m in-lbs 4.5 39 14.3 126 25.6 226 68.2 604 91.7 811	Mx M N-m in-lbs N-m 4.5 39 38.3 14.3 126 56.7 25.6 226 152 68.2 604 216 91.7 811 394	N-m in-lbs N-m in-lbs 4.5 39 38.3 339 14.3 126 56.7 502 25.6 226 152 1,344 68.2 604 216 1,913 91.7 811 394 3,483	Mx in-lbs N-m in-lbs N-m 4.5 39 38.3 339 38.3 14.3 126 56.7 502 42.6 25.6 226 152 1,344 152 68.2 604 216 1,913 216 91.7 811 394 3,483 394	Image Image <thimage< th=""> Image <thi< td=""><td>Mxm in-lbs N-m in-lbs N-m in-lbs N-m in-lbs N-m 4.5 39 38.3 339 38.3 339 966 14.3 126 56.7 502 42.6 377 1,996 25.6 226 152 1,344 152 1,344 2,531 68.2 604 216 1,913 216 1,913 3,274 91.7 811 394 3,483 394 3,483 3483 4,510</td><td>Image N-m in-lbs N-m in-lbs N-m in-lbs N-m in-lbs N Ib 4.5 3.9 3.8.3 3.39 3.8.3 3.39 9.66 2.17 14.3 1.26 56.7 5.02 42.6 3.77 1.996 4.49 25.6 2.26 1.52 1.344 152 1.344 2.531 5.69 68.2 6.04 2.16 1.913 2.16 1.913 3.274 7.36 91.7 8.11 3.94 3.483 3.94 3.483 4.510 1.014</td><td>N-m in-lbs N-m in-lbs N-m in-lbs N-m in-lbs N Ib N 4.5 39 38.3 339 38.3 339 966 217 966 14.3 126 56.7 502 42.6 377 1,996 449 1,996 25.6 226 152 1,344 152 1,344 2,531 569 2,531 68.2 604 216 1,913 216 1,913 3,274 736 3,274 91.7 811 394 3,483 394 3,483 4,510 1,014 4,510</td><td>M_{m}<</td><td>$M_{-m}$$M_{-m}$$in$-lbs$N-m$$in$-lbs$N$$Ib$$Ib$$Ib$$N$$Ib$</td><td>N-m $in-lbs$ $N-m$ $in-lbs$ $N-m$ $in-lbs$ N $in-lbs$ N $in-lbs$ N lb lb</td><td>N-m $in-lbs$ $N-m$ $in-lbs$ $N-m$ $in-lbs$ N ib N Ib N Ib N Ib N Ibf N 4.5 39 38.3 339 38.3 339 966 217 966 217 200 455 $$ 14.3 126 56.7 502 42.6 377 $1,996$ 449 $1,996$ 449 756 170 578 25.6 226 152 $1,344$ $2,531$ 569 $2,531$ 569 756 170 578 68.2 604 216 $1,913$ $3,274$ 736 $3,274$ 736 $1,334$ 300 $3,559$ 91.7 811 $3,483$ $3,48$</td></thi<></thimage<>	Mxm in-lbs N-m in-lbs N-m in-lbs N-m in-lbs N-m 4.5 39 38.3 339 38.3 339 966 14.3 126 56.7 502 42.6 377 1,996 25.6 226 152 1,344 152 1,344 2,531 68.2 604 216 1,913 216 1,913 3,274 91.7 811 394 3,483 394 3,483 3483 4,510	Image N-m in-lbs N-m in-lbs N-m in-lbs N-m in-lbs N Ib 4.5 3.9 3.8.3 3.39 3.8.3 3.39 9.66 2.17 14.3 1.26 56.7 5.02 42.6 3.77 1.996 4.49 25.6 2.26 1.52 1.344 152 1.344 2.531 5.69 68.2 6.04 2.16 1.913 2.16 1.913 3.274 7.36 91.7 8.11 3.94 3.483 3.94 3.483 4.510 1.014	N-m in-lbs N-m in-lbs N-m in-lbs N-m in-lbs N Ib N 4.5 39 38.3 339 38.3 339 966 217 966 14.3 126 56.7 502 42.6 377 1,996 449 1,996 25.6 226 152 1,344 152 1,344 2,531 569 2,531 68.2 604 216 1,913 216 1,913 3,274 736 3,274 91.7 811 394 3,483 394 3,483 4,510 1,014 4,510	M_{m} <	M_{-m} M_{-m} in -lbs $N-m$ in -lbs N Ib Ib Ib N Ib	N-m $in-lbs$ $N-m$ $in-lbs$ $N-m$ $in-lbs$ N $in-lbs$ N $in-lbs$ N lb	N-m $in-lbs$ $N-m$ $in-lbs$ $N-m$ $in-lbs$ N ib N Ib N Ib N Ib N Ibf N 4.5 39 38.3 339 38.3 339 966 217 966 217 200 455 $$ 14.3 126 56.7 502 42.6 377 $1,996$ 449 $1,996$ 449 756 170 578 25.6 226 152 $1,344$ $2,531$ 569 $2,531$ 569 756 170 578 68.2 604 216 $1,913$ $3,274$ 736 $3,274$ 736 $1,334$ 300 $3,559$ 91.7 811 $3,483$ $3,48$



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

Dimensions

	1011010	110							
	MXE16	MXE25	MXE32	MXE40	MXE50	MXE63			
Α	69.1	96.3	100.9	125.2	141.7	211.3			
В	72.1	100.6	105.1	130.0	147.8	216.2			
С	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			
Н	35.1	47.5	47.5	-	-	-			
Ι	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)			
М	Ø4.78 (2)	Ø4.01 (2)	Ø4.01 (2)	Ø4.80 (2)	Ø4.78 (2)	Ø4.78 (2)			
Ν	110.0	135.0	170.0	200	215.9	207.6			
0	40.0	40.0	27.2	25.4	25.4	39.9			
Р	-	-	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			
Т	-	-	-	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			
Х	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			
Dimon)imonsions in millimators • Sao MYE brochura 8200, 4000 for complete								



Dimensions in millimeters \bullet See $\underline{\text{MXE brochure 8300-4000}}$ for complete dimension details



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