

# ELECTRIC ACTUATORS

ROD-STYLE & RODLESS ACTUATORS

MOTION CONTROL SOLUTIONS



**Tolomatic** ELECTRIC LINEAR MOTION PRODUCTS  
EXCELLENCE IN MOTION®

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## RODLESS SCREW DRIVE ACTUATORS



### APPLICATIONS:

- Guidance of light to moderate loads and moments
- Side or impact loads

### FEATURES:

- Load-bearing carrier design with large, flexible mounting pattern for load stability
- Self-lubricating, trapezoidal bearing design for smooth operation and long life

### OPTIONS:

- Floating mount to compensate for non-parallelism with external guides

### SPECIFICATIONS:

	16	25	32	40	50	63
MAX. STROKE	in 31	134	133	131	178	125
	mm 787	3404	3378	3327	4521	3175
MAX. THRUST	lb 200	756	3559	3559	12010	19127
	N 89	3359	15710	15710	53000	85300
MAX. SPEED	in per sec 1067	1524	1524	1524	1524	1270
	mm per sec 27100	38750	38750	38750	38750	31750
MAX. LOAD	lb 35	217	70	449	150	520
	N 156	966	311	1996	667	2313

\*Auxiliary carrier doubles load capacities listed above and increases My and Mz bending moment capacity

### B3S RE-CIRCULATING BALL BEARING



### APPLICATIONS:

- Moderate to heavy load carrying for slow to moderate speed applications
- Long stroke lengths of unguided or overhung loads

### FEATURES:

- Load-bearing carrier design with integral recirculating ball bearings
- Hardened steel Gothic arch rail guides for high performance and repeatable accuracy
- Stainless-steel sealing band
- Anodized aluminum design with integral mounting system

### OPTIONS:

- Solid or ball nut assemblies in multiple screw leads
- Auxiliary carrier
- In-line or reverse-parallel motor mount
- Reed or solid state position sensors
- Inch or metric mounting

### SPECIFICATIONS:

	B3S or M3S	10	15	20
MAX. STROKE	in 136	133	179	
	mm 3454	3378	4547	
MAX. THRUST	lb 170	800	2700	
	N 756	3559	12010	
*MAX. LOAD	lb 591	1454	2008	
	N 2629	6468	8932	
MAX. SPEED	in per sec 60	60	60	
	mm per sec 1524	1524	1524	

\*Dual 180° carrier substantially increases load capacities listed above and increases Mx and Mz bending moment. Auxiliary carrier doubles load capacities listed above & increases My and Mz bending moment capacity

### TKS LINEAR RAIL BEARING



### APPLICATIONS:

- Single and multi axis tables with high requirements for flatness, straightness and accuracy
- Moderate load carrying for slow to moderate speed applications

### FEATURES:

- Load-bearing linear table design with ground profile linear guides and four ball bearings blocks
- Precision ball screw for repeatable and accurate positioning
- Anodized aluminum design with integral mounting holes and sensors

### OPTIONS:

- Multiple screw leads
- Auxiliary carrier
- Bellows for protection against contaminants in harsh environments
- In-line or reverse-parallel motor mount
- Reed or solid state position sensors

### SPECIFICATIONS:

	TKS	10	25	50	75
MAX. STROKE	in 96	96	96	96	96
	mm 2438	2438	2438	2438	2438
MAX. THRUST	lb 230	1590	2830	3260	
	N 1023	7073	12589	14501	
*MAX. LOAD	lb 100	250	500	750	
	N 445	1112	2224	3336	
MAX. SPEED	in per sec 30	30	60	40	
	mm per sec 762	762	1524	1016	

\*Auxiliary carrier doubles load capacities listed above and increases My and Mz bending moment capacity

## RODLESS BELT DRIVE ACTUATORS



### APPLICATIONS:

- Loads that are externally guided and supported

### FEATURES:

- High speed
- Low plate height

### SPECIFICATIONS:

	16	25	32	40	50	63
MAX. STROKE	in 200	200	200	200	160	100
	mm 5080	5080	5080	5080	4064	2540
MAX. THRUST	lb 38	151	209	250	325	418
	N 169	672	930	1112	1446	1859
MAX. VELOCITY	in per sec 200	150	200	150	200	150
	mm per sec 5080	3810	5080	3810	5080	3810
*MAX. LOAD	lb NA	217	NA	449	NA	736
	N NA	966	NA	1996	NA	3274

\*Auxiliary carrier doubles load capacities listed above and increases My and Mz bending moment capacity

### B3W RE-CIRCULATING BALL BEARING



### APPLICATIONS:

- Moderate to heavy load carrying for moderate to high speed applications
- Long stroke lengths of unguided or overhung loads with high moments

### FEATURES:

- Load-bearing carrier design with integral recirculating ball bearings
- Hardened steel Gothic arch rail guides for high performance and repeatable accuracy
- Stainless-steel sealing band
- Anodized aluminum design with integral mounting system
- Steel reinforced belts

### OPTIONS:

- Direct inline or reduction drive motor mount
- Auxiliary carrier
- Dual 180° carrier
- Reed or solid state position sensors
- Inch or metric mounting

### SPECIFICATIONS:

	B3W or M3W	10	15	20
MAX. STROKE	in 207	204	108	
	mm 5258	5182	2743	
MAX. THRUST	lb 150	250	325	
	N 667	1112	1446	
*MAX. LOAD	lb 591	1454	2008	
	N 2629	6468	8932	
MAX. SPEED	in per sec 157	200	200	
	mm per sec 3988	5080	5080	

\*Dual 180° carrier substantially increases load capacities listed above and increases Mx and Mz bending moment. Auxiliary carrier doubles load capacities listed above, & increases My and Mz bending moment capacity

### TKB LINEAR RAIL BEARING



### APPLICATIONS:

- Single and multi axis tables with high requirements for flatness, straightness and accuracy
- Moderate load carrying for moderate to high speed applications

### FEATURES:

- Load-bearing linear table design with ground profile linear guides
- High thrust belt material capable of demanding acceleration rates
- Anodized aluminum design with integral mounting holes and sensors
- Steel reinforced belts

### OPTIONS:

- Bellows for protection against contaminants in harsh environments
- Auxiliary carrier
- Direct inline or reduction drive motor mount
- Reed or solid state position sensors

### SPECIFICATIONS:

	TKB	10	25	50	75
MAX. STROKE	in 96	96	96	96	96
	mm 2438	2438	2438	2438	2438
MAX. THRUST	lb 75	120	195	245	
	N 334	534	867	1090	
*MAX. LOAD	lb 100	250	500	750	
	N 445	1112	2224	3336	
MAX. SPEED	in per sec 100	100	100	100	
	mm per sec 2540	2540	2540	2540	

\*Auxiliary carrier doubles load capacities listed above and increases My and Mz bending moment capacity

## ROD STYLE SCREW DRIVE ACTUATORS



### APPLICATIONS:

- Low to medium thrust forces for externally guided and supported loads
- Pneumatic and hydraulic cylinder style operation

### FEATURES:

- Stainless steel main tube & thrust tube
- Compatible with many commercially available metric rod end accessories
- Solid or ball nut assemblies
- NEMA or metric motor mount
- Rugged nose and main bearings
- Patent pending

### OPTIONS:

- Trunnion, foot or front flange mounts
- IP67 & IP69K ingress protection, stainless steel with protective motor enclosure
- Load guidance, tooling plate and anti-rotate
- Reed, solid state PNP or NPN switches

### SPECIFICATIONS:

	ERD	06	10	15	20	25	30
MAX. STROKE	in 8	10	24	24	39.4		
	mm 203	254	609	609	1000	1000	
MAX. THRUST	lb 20	100	200	500	3300	4500	
	N 89	445	890	2224	14679	20017	
MAX. SPEED	in per sec 40	40	40	20	58	58	
	mm per sec 1016	1016	1016	508	1473	1473	

### ICR INTEGRATED MOTOR/DRIVE/ACTUATOR



### APPLICATIONS:

- Low to medium thrust forces for externally guided and supported loads
- Pneumatic and hydraulic cylinder style operation

### FEATURES:

- All-in-one controller/drive/motor in a compact rod-style actuator
- Programmable, multi-position capability
- Internally threaded rod end
- Anodized aluminum design

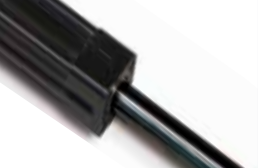
### OPTIONS:

- Ball nut assemblies with 2 or 5 TPI
- Trunnion, clevis, eye, flange or foot mounts
- Clevis, eye, threaded rod or coupler rod mounts
- In-line or reverse-parallel motor mount
- Flush mount reed or solid state position sensors

### SPECIFICATIONS:

	ICR20	LMI	RP
MAX. STROKE	in 24	24	
	mm 609	609	
MAX. THRUST	lb 400	720	
	N 1779	3202	
MAX. SPEED	in per sec 24	24	
	mm per sec 609	609	

### RSA ROD SCREW ACTUATOR



### APPLICATIONS:

- Medium to high thrust forces for externally guided and supported loads
- Pneumatic and hydraulic cylinder style operation

### FEATURES:

- Non-rotating, salt bath nitride treated thrust tube
- Internally threaded rod end
- Anodized aluminum design
- NFPA and ISO mounting standards

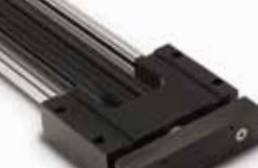
### OPTIONS:

- Ball, roller or solid nut assemblies
- Trunnion, clevis, eye, flange or foot mounts
- Clevis, eye, threaded rod or coupler rod mounts
- In-line or reverse-parallel motor mount
- Reed or solid state position sensors
- Inch or metric mounting

### SPECIFICATIONS:

	RSA or RSM	12	16	24	32	50	64
MAX. STROKE	in 18	18	24	36	48	60	
	mm 457	457	610	914	1219	1524	
MAX. THRUST	lb 130	471	860	2670			
	N 578	2095	3781	11877			
MAX. LOAD	lb 400	500	1000	1200			
	N 1779	2224	4448	5338			
MAX. SPEED	in per sec 123	123	29	50	50	58	
	mm per sec 3124	3124	737	1270	1270	1473	

### GSA GUIDED SCREW ACTUATOR



### APPLICATIONS:

- Medium to high thrust forces for loads requiring guidance and support
- Pneumatic and hydraulic cylinder style operation

### FEATURES:

- Hardened and ground steel guide rods
- Four bearing surfaces for smooth motion
- Wide tooling plate for end effector mounting
- Anodized aluminum design

### OPTIONS:

- Solid or ball nut assemblies
- Composite or linear ball bearings
- Standard, oversized or stainless-steel guide rods
- In-line or reverse-parallel motor mount
- Reed or solid state position sensors
- Inch or metric mounting

### SPECIFICATIONS:

	GSA or GSM	12	16	24	32
MAX. STROKE	in 18	24	30	36	
	mm 457	609	762	914	
MAX. THRUST	lb 130	471	860	2670	
	N 578	2095	3781	11877	
MAX. LOAD	lb 400	500	1000	1200	
	N 1779	2224	4448	5338	
MAX. SPEED	in per sec 123	123	29	50	
	mm per sec 3124	3124	737	1270	

### IMA INTEGRATED MOTOR ACTUATOR



### APPLICATIONS:

- High thrust forces for externally guided and supported loads
- Pneumatic and hydraulic cylinder style operation in a compact design

### FEATURES:

- Integral hollow rotor servo motor
- Integral high resolution feedback device
- Salt bath nitride treated thrust tube
- Grease port (patented) for internal lubrication without disassembly

### OPTIONS:

- Roller or ball nut assemblies
- Trunnion, clevis, eye, front flange or plate mounts
- Clevis, eye, or external thread rod mounts
- Integral holding brake
- Choose from popular motor manufacturers' connectors and feedback devices

### SPECIFICATIONS:

	IMA	22	33	44	55
MAX. STROKE	in 12	18	18	18	18
	mm 305	457	457	457	457
MAX. THRUST	lb 325	1,000	1,700	2,000	3,000
	N 1,446	4,448	7,562	8,896	13,350
MAX. LOAD	lb 28	48	24	52.5	23
	N 1219	610	1,334	584	787