

ROD-STYLE ELECTRIC ACTUATOR RSA-ST

The RSA screw driven rod-style actuator is ideal for medium to high thrust applications of guided loads. The compact design and cylinder style operation make this an ideal solution for applications historically solved with pneumatic or hydraulic cylinders.

HIGH POSITIONAL ACCURACY

SCREW ACCURACY

Metric Ball Nut $\pm 0.051\text{mm}/300\text{mm}$

MULTIPLE SCREW TECHNOLOGIES

YOU CAN CHOOSE:

- Solid nuts of engineered resins offer quiet performance at the lowest cost
- Ball nuts offer efficiency at a cost effective price



YOUR MOTOR
HERE

INTERNAL BUMPERS

Bumpers protect the screw and nut assembly from damage at both ends of stroke

THRUST TUBE

- Steel thrust tube supports extremely high force capabilities
- Salt bath nitride treatment provides excellent corrosion resistance, surface hardness and is very resistant to adherence of potential contaminants

ANTI-ROTATE & SCREW SUPPORT

Screw support and anti-rotate for smooth operation throughout stroke

BREATHER/PURGE PORTS

Standard feature on RSA 32,50,64 size actuators

HIGH THRUST BEARING

Unique high thrust bearing assembly design eliminates runout and isolates the linear forces for the drive shaft

Options:

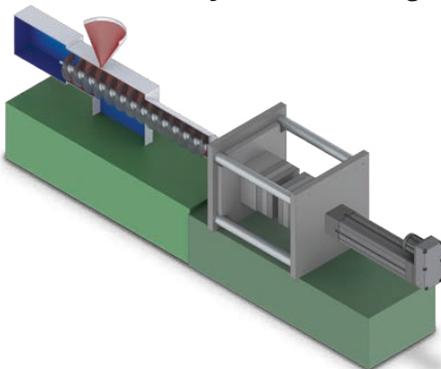
ROD END +

MET: External Threads
 CLV: Clevis Rod End
 SRE: Spherical Rod End
 ALC: Alignment Coupler Rod End
 XR: Rod Extension
 IP67: IP67 Ingress Protection
 LUB: Food Grade Grease

MOUNTING

MP2: 2 Mounting Plates
 FFG: Front Flange
 TRR: Trunnion Mount
 FM2: 2 Foot Mounts
 BFG: Rear Flange
 PCD: Rear Clevis Mount
 PCS: Rear Eye Mount

Injection Molding

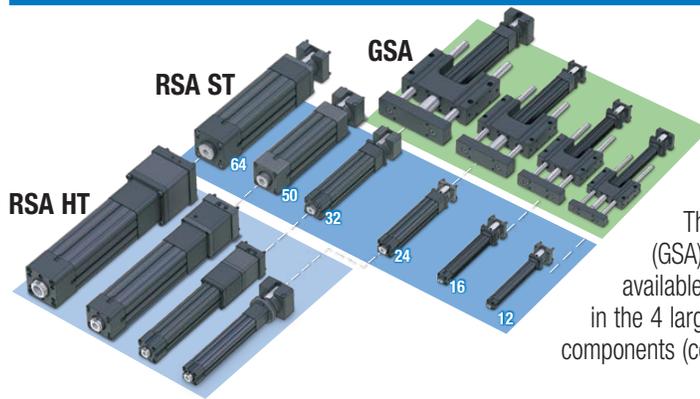


Applications:

- Aligning
- Animation
- Assembly
- Automotive
- Conveyors
- Diverting
- Fillers
- Gating
- Material handling systems
- Medical equipment
- Open / close doors
- Packaging equipment
- Pick & place
- Plate positioning change
- Press fit
- Robot manipulator arms
- Sonic welding
- Sorting
- Volumetric pumps
- Web guidance
- Wire winding & more!

ROD-STYLE ELECTRIC SCREW-DRIVE ACTUATOR

RSA-ST



The RSA is a flexible electric screw driven rod-style actuator. The standard (ST) model comes in six sizes. The guided RSA (GSA) adds guidance and load support to the design and is available in the 4 smaller sizes. The high force (HT) model is available in the 4 larger sizes, it incorporates stronger torque transmission components (couplers, pulleys, belts) and higher thrust bearings.

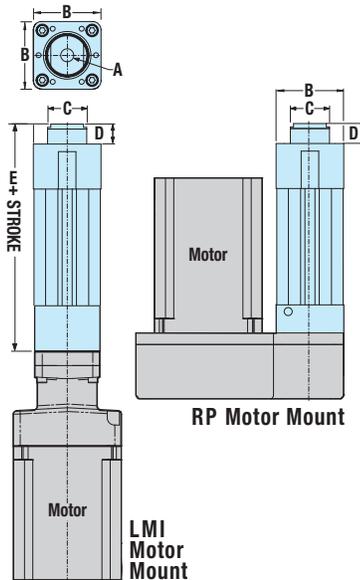
Specifications

Size	12	16	24	32	50	64
Max. Thrust (N)	578	578	3781	4226	13496	17917
Max. Stroke (mm)	305	457	610	914	1219	1524

Size	12	16	24	32	50	64
Max. Thrust (lbf)	130	130	850	950	3034	4028
Max. Stroke (in)	12	18	24	36	48	60

NOTE: For higher forces refer to the RSX product line.

Dimensions



SIZE: 12, 16, 24, 32, 50, 64

Size	12	16	24	32	50	64
A	M6x1.0 ↓19.0	M8x1.25 ↓19.0	M10x1.25 ↓25.0	M16x1.5 ↓26.0	M20x1.5 ↓38.0	M27x2.0 ↓38.0
B	28.6	35.0	51.8	65.5	94.1	116.3
C Ø	14.2	17.5	30.0	31.8	44.5	57.2
D	7.8	10.9	10.9	12.7	17.8	17.3
SOLID E	88.4	94.2	133.5	173.7	217.6	314.4
BALL E	88.4	94.2	145.2	203.6	243.0	365.2
ROLLER E	NA	NA	166.4	NA	NA	NA

Dimensions in millimeters

Size	12	16	24	32	50	64
A	1/4-28 ↓0.75	5/16-24 ↓0.75	7/16-20 ↓1.00	7/16-20 ↓1.13	3/4-16 ↓1.50	3/4-16 ↓1.50
B	1.13	1.38	2.04	2.58	3.71	4.58
C Ø	0.56	0.69	1.18	1.25	1.75	2.25
D	0.31	0.43	0.43	0.50	0.70	0.68
SOLID E	3.48	3.71	5.26	6.84	8.57	12.38
BALL E	3.48	3.71	5.72	8.02	9.57	14.38
ROLLER E	NA	NA	6.55	NA	NA	NA

Dimensions in inches

NOTE: YMH (Your Motor Here) will determine motor size, motor mount size and reverse parallel housing size. Complete dimensions available in RSA/GSA brochure #3600-4166; Always use solid models available at www.tolomatic.com for critical dimensions

ACTUATOR SIZING

COMPLETE INFORMATION, SIZING SOFTWARE AND SOLID MODELS AVAILABLE AT:

www.tolomatic.com

3D CAD LIBRARY

Tolomatic™

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