

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 ± 0.051mm/300mm

• 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



• 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

• YOUR MOTOR HERE

• HIGH THRUST BEARING

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

• BREATHER / PURGE PORTS

- Standard feature on RSA 32,50,64 size actuators

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

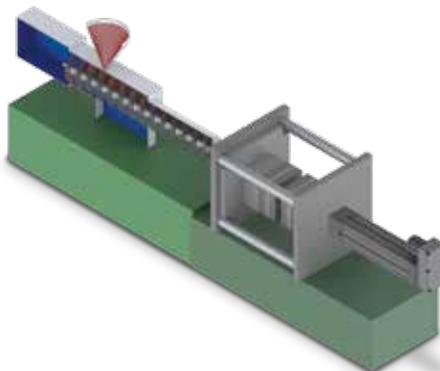
MOUNTING

- 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

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!

Injection Molding



Complete Your System:

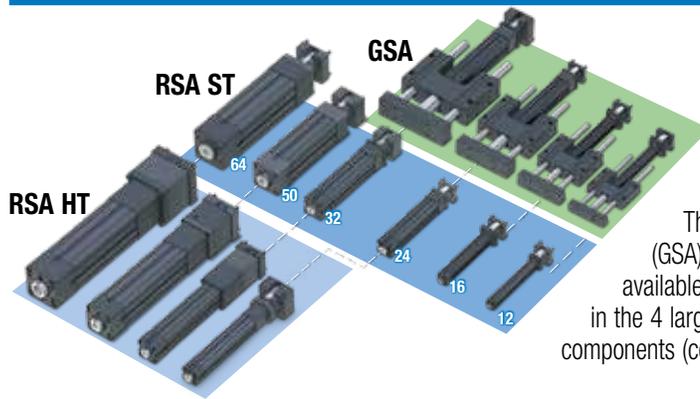


EtherNet/IP
ODVA
Modbus
PI

ACSI Integrated Motor/Drive/Controller is matched to provide optimal performance with Tolomatic actuators

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.

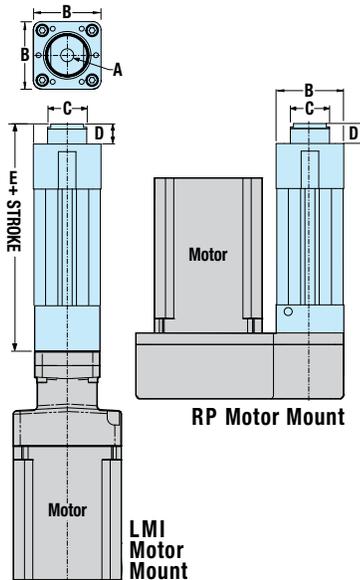
Specifications

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



USA
3800 County Road 116
Hamel, MN 55340, USA
Phone: (763) 478-8000
Fax: (763) 478-8080
Toll-Free: **1-800-328-2174**
sales@tolomatic.com
www.tolomatic.com

EUROPE
Tolomatic Europe GmbH
Zeilweg 42
60439 Frankfurt am Main
Germany
Phone: +49 69-2045-7837
EuropeSales@tolomatic.com

CHINA
Tolomatic Automation Products (Suzhou) Co. Ltd.
(ServoWeld® inquiries only)
No. 60 Chuangye Street, Building 2
Huqiu District, SND Suzhou
Jiangsu 215011 - P.R. China
Phone: +86 (512) 6750-8506
Fax: +86 (512) 6750-8507
ServoWeldChina@tolomatic.com

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