

# ROD-STYLE ELECTRIC ACTUATOR **RSA-HT**

The HT option is a high thrust version of the 24, 32, 50 and 64 sizes of the RSA series. RSA HT actuators offer a roller screw option to meet even the most demanding applications

## WHY CHOOSE THE HT OPTION?

- Higher strength components transfer more torque from the gearhead/motor to the actuator screw
- Grease zerk allows convenient relubrication for extended screw service life
- Allows convenient addition of gearbox to RP (Reverse Parallel mount) actuator
- Accommodates mounting large motors with up to 165mm bolt circle pattern

### GREASE ZERK

- Standard feature allows easy re-lubrication



### IP67 OPTION

- Resist water ingress 1m deep for up to 30 min

### YOUR MOTOR HERE

#### YOU CAN CHOOSE:

- Specify motor to be installed and actuator ships with proper mounting hardware

### REDESIGNED LMI & RP HOUSING

- Specially designed to accommodate larger motors & gearboxes with higher torques and larger bolt circles (up to 6.5", 165mm)

### DURABLE BELT MATERIAL

- High torque polyurethane timing belt with carbon tensile cords resists stretching

### ENHANCED HIGH THRUST BEARING

- High thrust angular contact ball bearings in a back to back configuration

### MULTIPLE SCREW TECHNOLOGIES

#### YOU CAN CHOOSE:

- Bronze nuts offer smooth performance at the lowest cost
- Ball screws offer efficiency at a cost effective price; low-backlash available
- Roller screws provide the highest thrust and life ratings available



### HEAVY DUTY INTERNAL BUMPERS

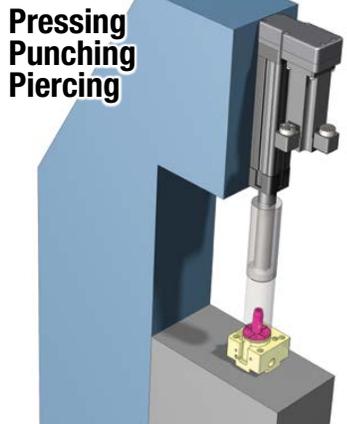
- Bumpers protect the screw and nut assembly from damage at both ends of stroke

### Mounting Options:

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

## Applications:

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



## Complete Your System:



EtherNet/IP  
ODVA CONFORMANT

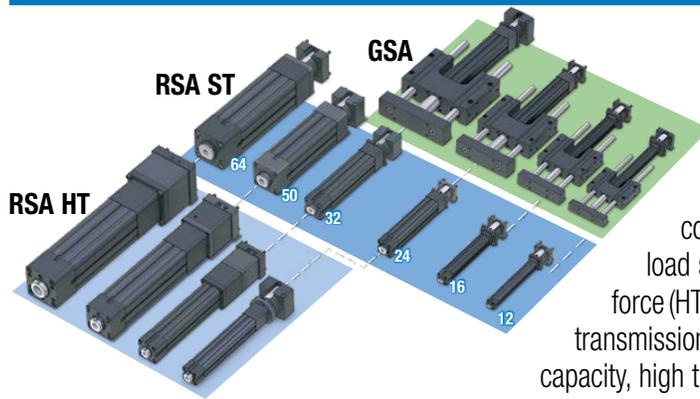
Modbus

PROFI NET  
PI

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

# ROD-STYLE ELECTRIC SCREW-DRIVE ACTUATOR

# RSA-HT



The RSA series of electric screw driven rod-style actuators are offered in 3 versions. The standard (ST) model comes in six sizes. The guided RSA (GSA) adds guidance and load support to the design and is available in 4 sizes. The high force (HT) model is available in 4 sizes, it incorporates torque transmission components (couplers, pulleys, belts) with higher torque capacity, high thrust bearings as well as a planetary roller screw option.

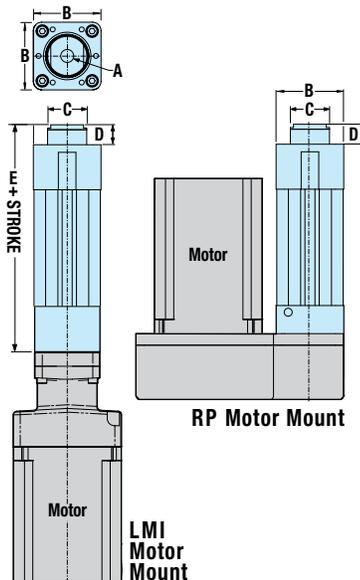
## Specifications

| Size                    | 24   | 32    | 50   | 64   |
|-------------------------|------|-------|------|------|
| <b>Max. Thrust (kN)</b> | 7.56 | 18.50 | 35.0 | 58.0 |
| <b>Max. Stroke (mm)</b> | 457  | 914   | 1219 | 1524 |

| Size                     | 24   | 32   | 50   | 64    |
|--------------------------|------|------|------|-------|
| <b>Max. Thrust (lbf)</b> | 1700 | 4159 | 7868 | 13039 |
| <b>Max. Stroke (in)</b>  | 24   | 36   | 48   | 60    |

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

## Dimensions



### SIZE: 24, 32, 50, 64

| Size            | 24                | 32               | 50               | 64               |
|-----------------|-------------------|------------------|------------------|------------------|
| <b>A</b>        | M10x1.25<br>±25.0 | M16x1.5<br>±26.0 | M20x1.5<br>±38.0 | M27x2.0<br>±38.0 |
| <b>B</b>        | 51.8              | 65.5             | 94.2             | 116.3            |
| <b>C Ø</b>      | 30.0              | 31.8             | 49.5             | 57.2             |
| <b>D</b>        | 10.9              | 12.7             | 17.8             | 17.3             |
| <b>SOLID E</b>  | 97.5              | 128.3            | 213.6            | 235.9            |
| <b>BALL E</b>   | 109.2             | 158.2            | 189.0            | 298.2            |
| <b>ROLLER E</b> | 132.3             | 145.7            | 213.6            | 235.9            |

Dimensions in millimeters

| Size            | 24               | 32               | 50              | 64                |
|-----------------|------------------|------------------|-----------------|-------------------|
| <b>A</b>        | 7/16-20<br>±1.00 | 7/16-20<br>±1.13 | 3/4-16<br>±1.50 | 1-1/4-16<br>±2.50 |
| <b>B</b>        | 2.04             | 2.58             | 3.71            | 4.58              |
| <b>C Ø</b>      | 1.18             | 1.25             | 1.75            | 2.25              |
| <b>D</b>        | 0.43             | 0.50             | 0.70            | 0.68              |
| <b>SOLID E</b>  | 3.84             | 5.05             | 6.44            | 9.29              |
| <b>BALL E</b>   | 4.30             | 6.23             | 7.44            | 11.7              |
| <b>ROLLER E</b> | 5.21             | 5.74             | 8.41            | 9.29              |

Dimensions in inches



**3D CAD LIBRARY**

**ACTUATOR SIZING**

**COMPLETE INFORMATION, SIZING SOFTWARE AND SOLID MODELS AVAILABLE AT:**  
[www.tolomatic.com](http://www.tolomatic.com)

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](http://www.tolomatic.com) for critical dimensions

**STANDARD FEATURES**  
 See RSA-ST Flyer (3600-4198) for more RSA standard features



**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](mailto:sales@tolomatic.com)  
[www.tolomatic.com](http://www.tolomatic.com)

**EUROPE**  
**Tolomatic Europe GmbH**  
 Zeilweg 42  
 60439 Frankfurt am Main  
 Germany  
**Phone:** +49 69-2045-7837  
[EuropeSales@tolomatic.com](mailto: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](mailto:ServoWeldChina@tolomatic.com)

All brand and product names are trademarks or registered trademarks of their respective owners. Information in this document is believed accurate at time of printing. However, Tolomatic assumes no responsibility for its use or for any errors that may appear in



this document. Tolomatic reserves the right to change the design or operation of the equipment described herein and any associated motion products without notice. Information in this document is subject to change without notice.

Visit [www.tolomatic.com](http://www.tolomatic.com) for the most up-to-date technical information