



RSA-ST ROD-STYLE ELECTRIC ACTUATOR

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

ANTI-ROTATE & SCREW SUPPORT **THRUST TUBE**

extremely high force capabilities Salt bath nitride treatment provides excellent corrosion resistance, surface hardness and is very resistant to

adherence of potential contaminants

• Steel thrust tube supports

Screw support and anti-rotate for smooth operation throughout stroke

Standard feature on

RSA 32,50,64 size actuators

BREATHER/PURGE

PORTS

YOUR MOTOR HERE

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

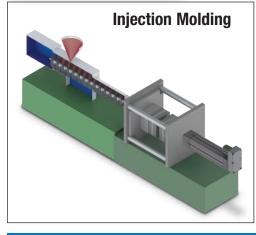




- Animation
- Assembly
- Automotive
- Conveyors
- Diverting
- Fillers
- Gating

- 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

RSA HT

RSA HT

GSA

availal
in the 4 la
components

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.

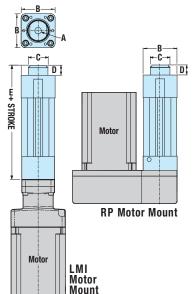
Specifications

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
	Α	M6x1.0	M8x1.25	M10x1.25	M16x1.5	M20x1.5	M27x2.0
	A	↓19.0	↓19.0	↓ 25.0	J26.0	↓ 38.0	↓38.0
	В	28.6	35.0	51.8	65.5	94.1	116.3
	CØ	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

A 1/4-28 5/16-24 7/16-20 7/16-20 3/4-16 3/4-16 J0.75 J0.75 J1.00 J1.13 J1.50 J1.50 B 1.13 1.38 2.04 2.58 3.71 4.58 CØ 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 BOLLER F NA NA 6.55 NA NA NA		Size	12	16	24	32	50	64
B 1.13 1.38 2.04 2.58 3.71 4.58 CØ 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		Λ	1/4-28	5/16-24	7/16-20	7/16-20	3/4-16	3/4-16
CØ 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		A	↓ 0.75	↓ 0.75	↓ 1.00	↓ 1.13	↓ 1.50	↓ 1.50
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		В	1.13	1.38	2.04	2.58	3.71	4.58
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		CØ	0.56	0.69	1.18	1.25	1.75	2.25
BALL E 3.48 3.71 5.72 8.02 9.57 14.38		D	0.31	0.43	0.43	0.50	0.70	0.68
	SOLID	Е	3.48	3.71	5.26	6.84	8.57	12.38
ROLLER E NA NA 6.55 NA NA NA	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





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