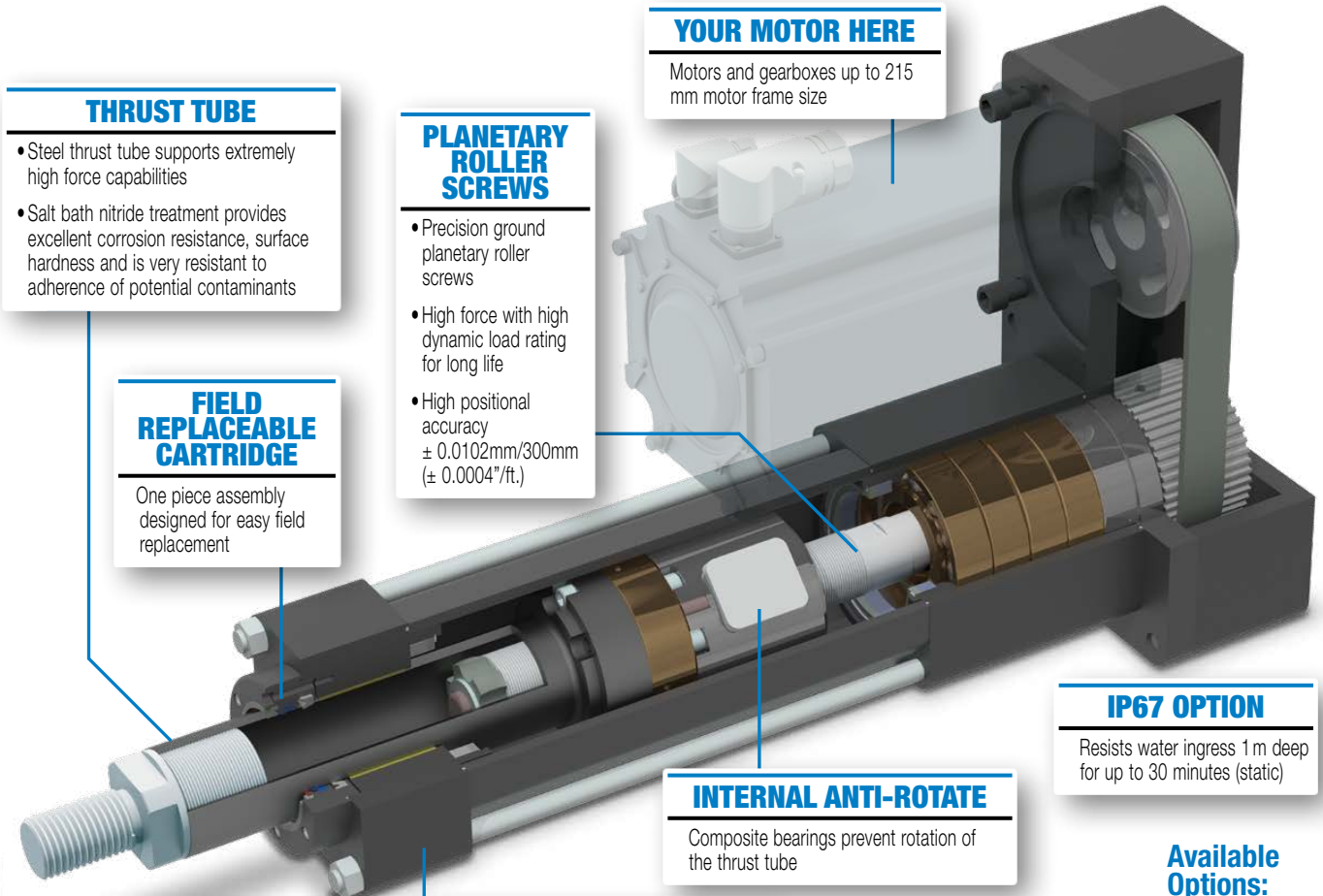


EXTREME FORCE, HYDRAULIC CLASS ELECTRIC ACTUATORS

RSX actuators are an ideal choice for replacing hydraulic cylinders. These high force electric actuators with planetary roller screws are available for forces up to 50,000 lbf (222.4 kN). Designed for 100% duty cycle, rugged service and long life.

RSX



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

FIELD REPLACEABLE CARTRIDGE

One piece assembly designed for easy field replacement

PLANETARY ROLLER SCREWS

- Precision ground planetary roller screws
- High force with high dynamic load rating for long life
- High positional accuracy
± 0.0102mm/300mm
(± 0.0004"/ft.)

YOUR MOTOR HERE

Motors and gearboxes up to 215 mm motor frame size

IP67 OPTION

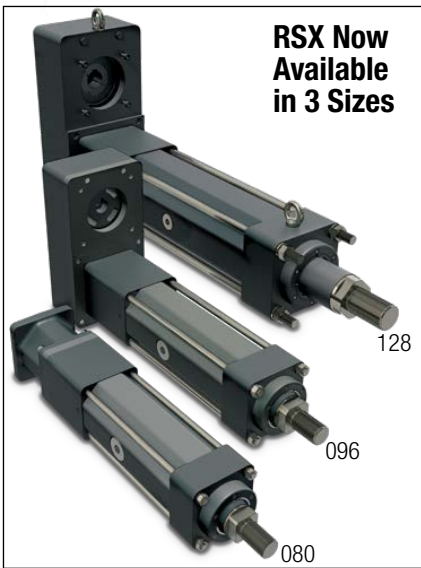
Resists water ingress 1 m deep for up to 30 minutes (static)

INTERNAL ANTI-ROTATE

Composite bearings prevent rotation of the thrust tube

HEAVY DUTY CONSTRUCTION

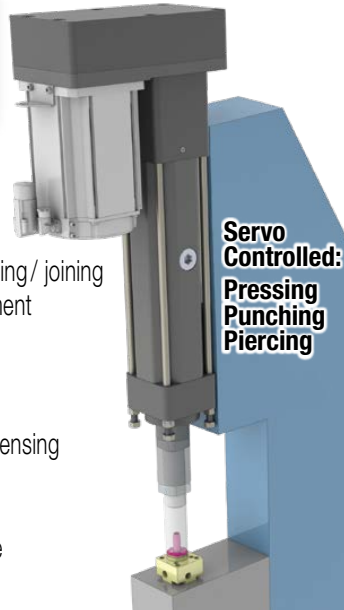
All external component are Type III hard-coat anodized aluminum or zinc plated steel for rugged use and corrosion resistance



RSX Now Available in 3 Sizes

Applications:

- Assembly machinery
- Automotive
- Clamping
- Converting
- Cycle testing
- Hydraulic replacement
- Injection molding
- Machine tools
- Motion simulators
- Piercing
- Pressing
- Punching
- Riveting / fastening / joining
- Sawmill equipment
- Stamping
- Test stands
- Tube bending
- Volumetric dispensing
- Welding
- Wire winding
- and many more



Servo Controlled: Pressing, Punching, Piercing

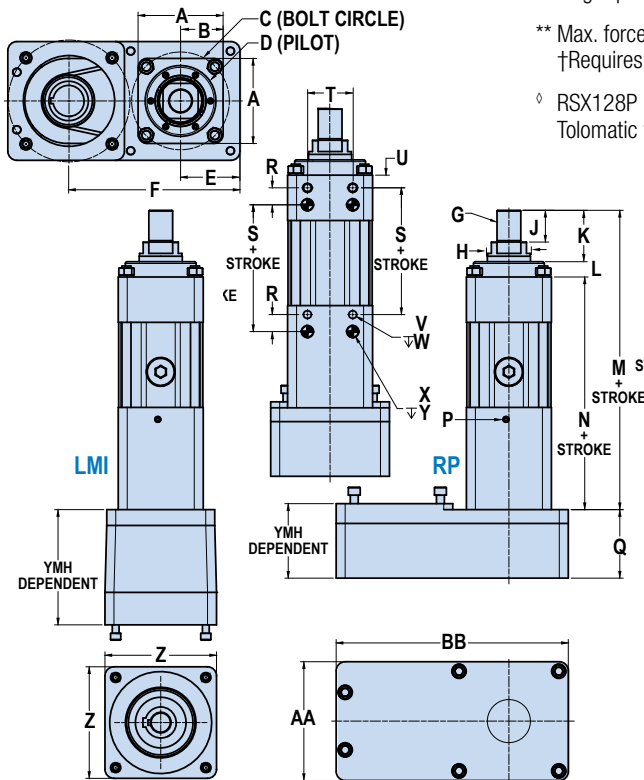
- Available Options:**
- Mounting**
Mounting Plates;
Front Flange;
Trunnion Mount;
Extended Tie Rods
 - Rod Ends**
Alignment Coupler;
Rod Clevis
 - Sensors**
With tie-rod mounting bracket
 - White Paint & Stainless Steel**
For food grade applications
 - Oil Cooled**
For extended high duty cycle/high force performance

HIGH FORCE, HYDRAULIC CLASS ELECTRIC ACTUATORS **RSX**

Specifications

RSX SIZE	MIN. STROKE	MAX. STROKE				SCREW CODE	SCREW LEAD	LEAD ACCURACY	BACK-LASH	MAX. FORCE	MAX. SPEED	DYNAMIC LOAD RATING	DYNAMIC TORQUE TO OVERCOME FRICTION
		STANDARD	EXTENDED*	TRR STANDARD	TRR EXTENDED*								
080	75	890	1500	820	1430	RN10	10.00	0.01	0.030	80.07	701	173.1	6.21
096	75	960	1500	880	1420	RN12	12.00	0.01	0.030	133.45†	759	269.3	6.21
096P	75	450	—	—	—	RN12	12.00	0.01	0.030	177.93**	759	269.3	6.21
128°	75	660	1230	550	1120	RN10	10.00	0.01	0.030	222.41	500	442.7	8.47
	in	in	in	in	in		turns/in	in/ft	in	lbf	in/sec	lbf	lbf-in
080	2.95	35.0	59.1	32.3	56.3	RN10	2.54	0.0004	0.0012	18,000	27.6	38,914	55.0
096	2.95	37.8	59.1	34.6	55.9	RN12	2.12	0.0004	0.0012	30,000†	29.9	60,541	55.0
096P	2.95	17.7	—	—	—	RN12	2.12	0.0004	0.0012	40,000**	29.9	60,541	55.0
128°	2.95	26.0	48.4	21.7	44.1	RN10	2.54	0.0004	0.0012	50,000	19.7	99,519	75.0

Dimensions



* Any stroke length above standard and up to max. extended stroke length, may require longer production time, contact Tolomatic.

** Max. force only in extend (retract force 15,000 lbf; 66.7 kN) TRR = Trunnion option †Requires HT1 Option

◊ RSX128P now available with press capability up to 60,000 lbf (266.9kN) Contact Tolomatic for more information.

	080	096	128
A	135.0	150.0	220.0
B	67.5	75.0	110.0
C	150.00	171.0	250.0
D	110.00 (+0.00) (-0.03)	125.00 (+0.00) (-0.03)	175.0 (+0.00) (-0.03)
E	88.9	104.8	145.5
RP1	272.9	304.8	425.6
RP2	271.1	302.3	427.2
G	M36 x 3.0-6g	M42 x 4.5-6g	M64 x 3.0-6g
H	63.388 / 63.449	76.093 / 76.149	101.488 / 101.549
J	60.0	69.9	105.0
K	95.0	104.8	165.1
L	27.0	27.0	33.0
M	474.7	601.1	803.9

	080	096	128
N	352.7	469.2	605.8
P	RC 1/8 -28 X (Plugged)	RC 1/8 -28 X (Plugged)	RC 1/4 -19 X (Plugged)
Q	96.0	124.7	184.2
R	30.0	30.0	40.0
S	210.9	282.4	369.0
T	70.0	80.0	115.0
U	18.0	22.3	35.0
V	M12 x 1.75-6H	M16 x 2.0-6H	M20 x 2.5-6H
W	↓ 18.0 (4)	↓ 20.0 (4)	↓ 20.0 (4)
X	16.025 / 16.012	20.025 / 20.013	20.025 / 20.013
Y	↓ 15.0 (4)	↓ 15.0 (4)	↓ 20.0 (4)
Z	152.4	196.9	287.8
AA	177.8	209.6	291.1
BB	355.6	409.6	589.8

Dimensions in millimeters



MADE IN U.S.A.

TolomaticTM
EXCELLENCE IN MOTION

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =
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