

# ECONOMICAL ROD-STYLE ELECTRIC CYLINDER

# ERD

The ERD is an economical electric cylinder compatible with many NEMA & metric mount stepper and servo motors to create a flexible, powerful, yet cost-effective electric cylinder solution over traditional pneumatic cylinders.

ACTUATOR SIZING  
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**MULTIPLE SCREW TECHNOLOGIES**

**YOU CAN CHOOSE:**

- Solid nuts of bronze (15, 20 sizes) or engineered resins (10, 15 sizes) offer quiet performance at the lowest cost
- Ball nuts (10, 15, 20 sizes) offer efficiency at a cost effective price



**PATENTED**

**THREADED NOSE MOUNT WITH JAM NUT**



**OVERSIZED MAIN BEARING**

- Oversized for long life
- Accommodates high thrust load

**INTERNAL MAGNET**

- For sensor signaling

**NOSE BEARING**

- Engineered resins for smooth operation
- Provides critical support of thrust rod

**NEMA OR YOUR MOTOR HERE**

**THREADED ROD END**

**STAINLESS-STEEL THRUST TUBE & MAIN TUBE**

- 300 series stainless-steel provides high rigidity and corrosion resistance

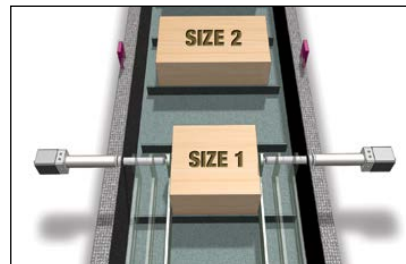
**Options:**

TRR – Trunnion Mount	ARI – Internal Anti-rotate
PCD – Rear Clevis Mount	SS1 – 300 Series Stainless Steel
FM2 – 2 Foot Mounts	IP67 – IP67 Seal
FFG – Front Flange	IP69K – IP69K Seal
	GD2 – Light Duty External Guide

**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!

**Product Change Over**



**Complete Your System:**



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

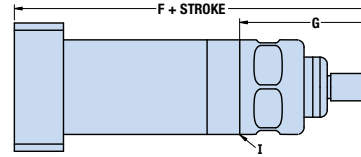
# ECONOMICAL ELECTRIC: PNEUMATIC CYLINDER REPLACEMENT

## Specifications (metric measurement)

# ERD

ERD SIZE	MAXIMUM STROKE	SCREW CODE	LEAD	LEAD ACCURACY	BACKLASH	MAXIMUM THRUST	DYNAMIC LOAD RATING
mm	mm		mm/rev	mm/300mm	mm	N	N
10	254.0	SN01	25.4	0.18	0.18	188	NA
		SN02	12.7	0.18	0.18	188	NA
		SN05	5.08	0.18	0.18	188	NA
		BNM05	5.00	0.87	0.13	445	1068
15	304.8	SN01	25.4	0.15	0.18	334	NA
		SN02	12.7	0.13	0.18	334	NA
		SN05	5.08	0.15	0.18	334	NA
	609.6	BNM05	5.00	0.87	0.13	890	2002
		BNM10	10.00	0.87	0.13	890	1779
20	609.6	BZ10	2.54	0.15	0.20	890	NA
		BNM05	5.00	0.87	0.13	2224	4003
		BNM10	10.00	0.87	0.13	2224	4003
		BNM20	20.00	0.87	0.10	2224	11387
		BZ10	2.54	0.15	0.20	2224	NA

## Dimensions OPTION: IP67, IP69K

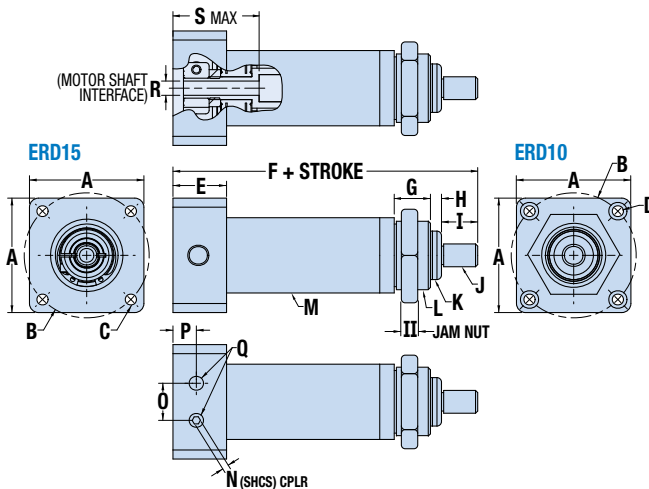


\*Dimension shown is with Tolomatic AMxxx motor hardware YMH option will determine this dimension.

IP67 & IP69K Option replaces the Jam Nut

	ERD10	ERD15	ERD20
<b>IP67</b>			
<b>F</b> mm	121.8	152.4*	204.8*
<b>G</b> mm	44.17	53.0	72.5
<b>IP69K</b>			
<b>F</b> mm	128.1	164.8	204.8*
<b>G</b> mm	50.52	65.7	72.5
<b>I</b>	Surface for mounting options		

## Dimensions SIZE: 10, 15, 20



	ERD10	ERD15	ERD20
<b>A</b> mm	40.13	56.39*	*
<b>B</b> mm	Ø43.82	Ø66.68*	*
<b>C</b> mm	-	M4 x 0.7*	*
<b>D</b> mm	Ø3.91	-	*
<b>F</b> mm	106.7	137.2*	*
<b>I</b> mm	12.70	19.05	19.05
<b>L</b> mm	M24 x 1.5	M34 x 1.5	M44 x 1.5
<b>O</b> mm	13.00	13.00	23.37
<b>P</b> mm	8.20	7.57*	*
<b>Q</b> mm	(2) M6 x 1.0 ±7.9	(2) M6 x 1.0 ±12.7	(2) M6 x 1.0 ±12.7

\*This dimension is determined by motor choice.

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