

# PL Series

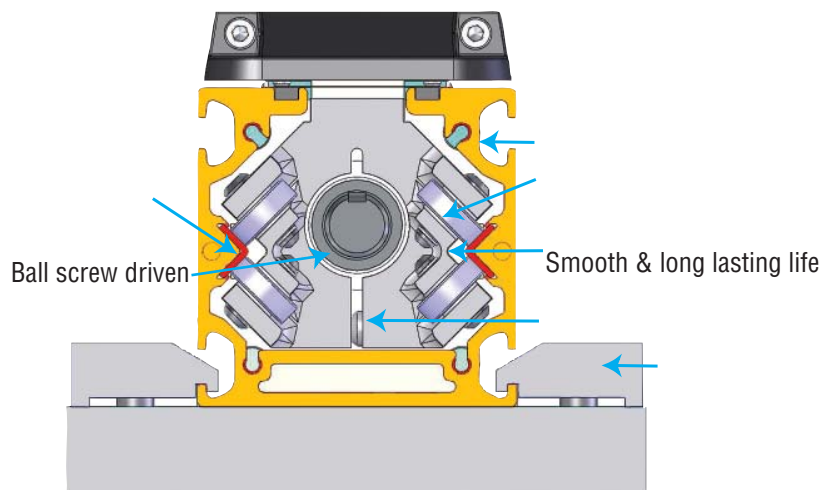
## LINEAR ACTUATOR

PL Series actuators provide modular linear motion, ideal for industrial or material handling applications due to high speed and long stroke length capabilities.

- High speed cam roller design
- Ball screw driven
- Industry standard t-slots  
*Ease of installation and mounting*
- Precision machine profile -  
*Flat milled surface for flush mounting on sides or base*
- Optional Integral V™ guiding system



PATENT PENDING



### OPTIONS

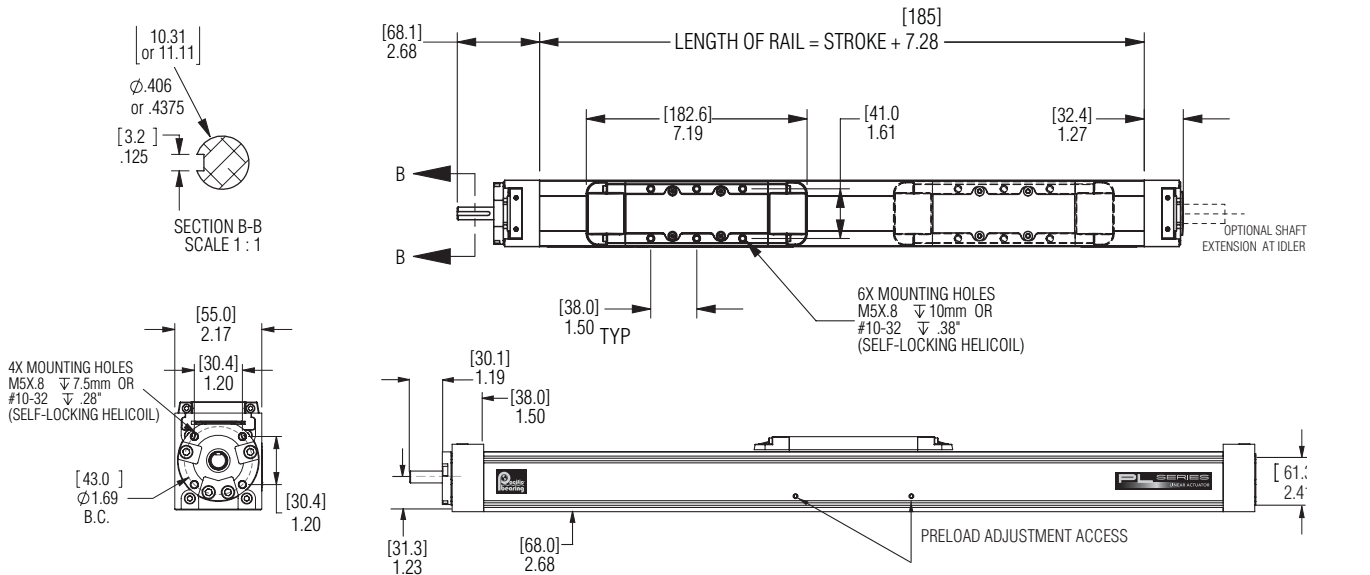
- Extended length carriage
- Shaft extension at the idler end
- Two carriage options (driven & undriven)
- 0.631" diameter ball screw with .200, .500 and 1.00 inch leads
- 16 mm diameter ball screw with 5 mm and 10 mm leads
- 0.631" diameter acme screw with various leads

### ACCESSORIES

- Actuator mounting clamps
- Limit switches
- Limit switch mounting brackets
- Motor adaptors



## DIMENSIONS



LOAD CAPACITY													
AXIS PROFILE		Fx MAX		Fy MAX		Fz MAX		Mx MAX		My MAX		Mz MAX	
(mm)	(in)	(N)	(lbf)	(N)	(lbf)	(N)	(lbf)	(N-m)	(lbf-in)	(N-m)	(lbf-in)	(N-m)	(lbf-in)
55	2.17	1958	440	2852	64	890	200	10	90	52	460	52	460

NOTE: The moment arms for calculating the moments should be measured from the surface of the carriage.

\*Max values for dynamic conditions. Please refer to the following formula when combined loads are applied. The letter A values are the calculated values.

$$\frac{F_{yA}}{F_y} + \frac{F_{zA}}{F_z} + \frac{M_{xA}}{M_x} + \frac{M_{yA}}{M_y} + \frac{M_{zA}}{M_z} \leq 1$$

## OPERATING RANGE

The recommended operating range is below and to the left of the shown curves.

- The curves are for ball screw drives with 0.631" ballscrews.
- Speeds indicated by the curves are based on 80% of the critical speed of the ball screw.
- Higher recommended speed ranges can be obtained by selecting a larger lead ball screw.

- Red: .631 with .200/5.08 mm lead
- Blue: .631 with .500/12.7 mm lead
- Orange: .631 with 1.00/25.4 mm lead
- Black: All equal the same

