

COMPTROL LINEAR POSITIONER

SPECIFICATIONS

POSITIONER	SERIES 20	SERIES 40	SERIES 45	SERIES 50
Stroke Length (in.)	5,9,13,19,25	5,9,13,19,25, 31, 37	5,9,13,19, 25,31,37	9,13,19,25, 31,37,43,49
Thrust Capacity (lb). (3)	870	1,830	6,450	14,800
Repeatability	+/-0.0005	+/-0.0005	+/-0.0005	+/-0.0005
Ballscrew Assembly				
Rolled Thread	Yes	Yes	Yes	Yes
Precision Rolled *	Yes	Yes	Yes	Yes
Precision Ground *	No	Yes	Yes	Yes
Diameter x Lead (2)	.500 x .500	.750 x .500	1.000 x .500	1.500 x .500
Optional Leads *	N/A	N/A	.200, .250, 1.000, 2.000	.200, .250, 1.000, 2.000
Ballscrew Dynamic Load (1)	1,000	3,450	3,950	12,900
Backlash (Rolled Thread)	.002"/.003"	.002"/.003"	.002"/.003"	.002"/.003"
Precision Rolled *	.002"/.003"	.002"/.003"	.002"/.003"	.002"/.003"
Precision Ground *	N/A	0.000	0.000	0.000
Maximum Linear Velocity (in/sec) (3)	15	15	60	60
Maximum Ballscrew RPM (4)	2,000	2,000 (5)	2,000	2,000 (6)
Lead Error – Rolled (Cumulative)	.005 in./ft.	.005 in./ft.	.005 in./ft.	.005 in./ft.
Precision Rolled (Cumulative) *	.001 in./ft.	.001 in./ft.	.001 in./ft.	.001 in./ft.
Precision Ground (Non-cumulative) *	.0005 in./ft.	.0005 in./ft.	.0005 in./ft.	.0005 in./ft.
Drive Ratios (7)	1:1 or 2:1	1:1 or 1.5:1	1:1 or 2:1	1:1 or 2:1
Positioner Configuration	Parallel or In-Line	Parallel or In-Line	Parallel	Parallel
Standard Mounting (8)	Base (T-Slots)	Base (T-Slots)	Base (T-Slots)	Base (T-Slots)
Motor Mounting Adapter	Per Customer Spec.	Per Customer Spec.	Per Customer Spec.	Per Customer Spec.

Specifications are for standard positioner configurations. An asterisk (*) indicates an available option. Please consult Comptrol for application assistance, pricing and delivery on both standard and non-standard requirements.

All specifications are subject to change without notice.

Standard Options

- Enclosed position sensor kit with three universal proximity switches that can be wired in any combination of NC or NO and Sink (NPN) or Source (PNP). Supply voltage 10-30 volts DC. Reduces working stroke length by approximately 1 inch.
- Encoder and/or brake
- Mounting Options
 - Adjustable mounting feet
 - Front flange mount
 - Clevis mount (parallel only)
- Comptrol supplied and specified motor, drive and control package

Notes

- (1) Ballscrew load is rated dynamically for 1,000,000 inches of travel.
- (2) Consult factory for non-standard ballscrew leads.
- (3) Maximum capacities calculated based on optimum motor torque, ballscrew lead, and pulley ratio configuration.
- (4) Consult factory for speeds over 2,000 RPM.
- (5) 37-inch stroke unit is rated for 1,650 RPM maximum.
- (6) 49-inch stroke unit is rated for 1,650 RPM maximum.
- (7) 1:1 ratio on all in-line linear positioners.
- (8) All Comptrol Linear Positioners have T-slots on the bottom mounting surface and are supplied with mounting nuts inserted in T-slots.