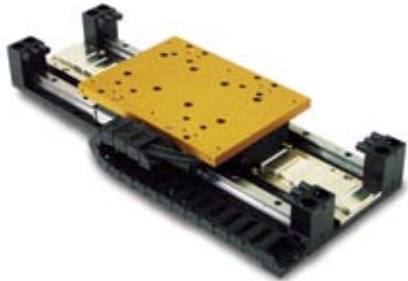


Tables/Positioners



Trilogy Ironless and Ironcore Linear Motor Positioning Tables

www.parker.com/em/lmpositioners



Parker linear positioners utilize our high-performance Trilogy ironless and ironcore linear motors in a pre-engineered, easily integrated, ready-to-run package. The principle design goal for these positioners is to achieve high performance at an economical cost while preserving the design flexibility to accommodate customization. Options include multi-axis configurations, bellows, and a variety of cable management systems.

- Single- or dual-bearing rail positioners to better match the performance and cost requirements for each application
- Magnetic encoders for industrial environments or optical encoders with resolutions down to 0.1 micron
- Multiple carriage options
- Open frame, bellows or covers available
- Zero cogging (ironless) or extremely smooth (ironcore)
- Counterbalance options for vertical applications
- Velocities to 7 m/s

Series	T1S / T1D	T2S / T2D	T3S / T3D	T4S / T4D	TR7	TR9	TR16
Motor	110 ironless	210 ironless	310 ironless	410 ironless	R7 ironcore	R9 ironcore	R16 ironcore
Travel lengths (mm)	100 to 900	60 to 3840	60 to 4390	78 to 3835	105 to 2745	108 to 3708	94 to 3694
Load (kg)	11.3*/13.5**	27.2*/45.3**	72*/108**	90*/181**	200**	300**	450**
Acceleration (G's) ***	5	5	5	5	5	5	5
Velocity (m/s) †	up to 7	up to 7	up to 7	up to 7	up to 7	up to 7	up to 7
Peak force (N)	202.5	494.2	1170.0	3928.1	1761.0	4097.0	7433.0
Continuous force (N)	45.4	110.3	262.0	878.6	462.0	1121.0	2230.0
Resolution (micron)	0.1 to 5.0	0.1 to 5.0	0.1 to 5.0	0.1 to 5.0	0.1 to 5.0	0.1 to 5.0	0.1 to 5.0
Repeatability (micron) ‡	+/- 1	+/- 1	+/- 1	+/- 1	+/- 1	+/- 1	+/- 1

* Single rail load specifications

** Dual rail load specifications

*** Consult factory for higher accelerations

† Peak velocity is encoder dependent

‡ Repeatability is resolution dependent

Recommended loads based on motor size and typical performance. Bearing specifications exceeded listed specifications. Consult factory for higher loads.

