



# LINEAR SYSTEMS



**T-L ... LIKE NO OTHER.**

[www.tlirr.com](http://www.tlirr.com)





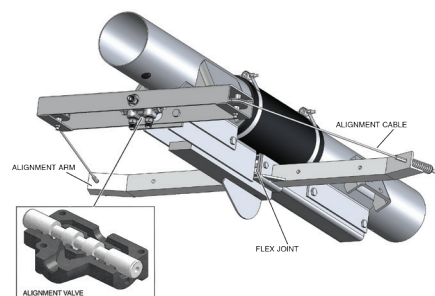
# T-L LINEAR SYSTEMS OFFER CONTINUOUS MOVEMENT... LIKE NO OTHER.



Planetary Gear Hub



Hydraulic Motor



Alignment Control System

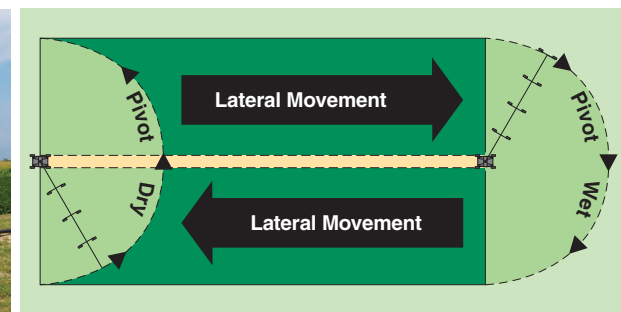
## PRECISE WATER MANAGEMENT CUSTOM DESIGNED FOR YOUR APPLICATION.

- T-L linear irrigation systems consistently use nearly 50% less water than flood irrigation methods while allowing almost total coverage of the field. Equal water distribution over the length of a linear system reduces friction loss and lowers operating costs.
- T-L's hydrostatic drive delivers continuous movement resulting in precise water distribution, which is critical to production when irrigating and especially when applying chemicals through the system. There is no "start-stop" operation typical of electrically driven systems.
- T-L's simplicity of design, reliability and use of hydraulics enables one person to manage several systems increasing efficiency and lowering cost.
- Planetary gear boxes are coupled directly to the hydraulic motor realizing high efficiency of operation and eliminating u-joints, microswitches, drive shafts and a host of other high maintenance components common to electrically driven systems. T-L warrants planetary gearboxes for eight years or 24,000 hours, the best guarantee in the business.
- T-L linear systems can be guided from a furrow, above ground cable, or a buried wire depending on the specific requirements. T-L's exclusive spool valve guidance system assures accurate alignment for each tower. Water can be drawn from a ditch or by "hose-drag" up to 660' in length.



*"The real payoff from our T-L's is the peace of mind they provide. My linears run reliably and consistently. And should one shut down, it is always something quite minor that we can address easily. T-L linear movement units have taken one part of our business, irrigation, and made it both easy and reliable."*

*– James Wilkins,  
New Zealand*



T-L's "ULTRA Linear Tractor" allows you to irrigate adjacent parallel fields with one system. The spans pivot around a stationary 4-wheel tractor using a furrow, cable, concrete ditch or buried wire for guidance. The tractor can rotate allowing the system to operate in a variety of orientations.



Center-feed or end-feed hose drag linear (with buried wire or above ground cable guidance)



Center-feed or end-feed ditch tractor (with buried wire or above ground cable guidance)



One Span Linear system (with hose drag and furrow guidance)



One Span Linear (with furrow guidance)



Precision Linear Control III Panel





## GPS NAVIGATION LINEAR SYSTEM - NEW FROM T-L

# T-L'S GPS NAVIGATION LINEAR SYSTEM LIKE NO OTHER.

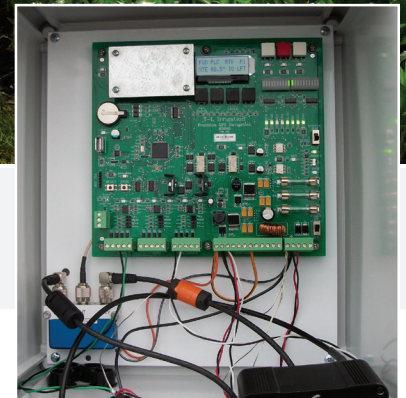
### T-L'S GPS NAVIGATION LINEAR SYSTEM is the ultimate in design simplicity.

Featuring Real Time Kinematic (RTK) sub-inch accuracy, the package includes the base station, eliminating the need for a subscription. The system tracks multiple constellations reducing the signal loss caused by tree lines and other obstacles, and there is no electronic interference from power lines.

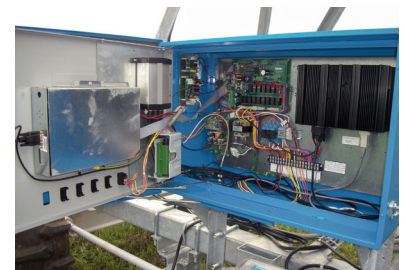
The GPS Linear system can store up to four (4) different paths for T-L Towable Ultra Linear Systems or T-L Pivoting Linears. It can also store up to nine (9) intermediate waypoints if needed.

Operators get fast start up time (less than one minute), and real-time diagnostics so they can monitor the system's performance. Safety is assured through low voltage DC (24VDC), and there is no buried wire, above ground cable or furrows with their associated installation and maintenance costs.

Combined with T-L's continuous movement, low maintenance and reliability of T-L's exclusive hydrostatic design, **T-L'S GPS NAVIGATION LINEAR SYSTEM** represents the optimum in pivot Linear System management.



*Inside T-L Irrigation's GPS control box/panel*



*Inside the competitor's GPS control box/panel*

- RTK Accuracy (cm)
- Base Station included, no subscription fees
- One Base can serve multiple Linears
- Track on Track accuracy, pass after pass
- Dual frequency GPS for fast startup times
- Faster startup time than competitor's single frequency GPS
- Tracks multiple constellations to maintain RTK Fix

- No buried wire, above ground cable or furrow required
- Safe and Simple low voltage DC (24VDC)
- Continuous movement of all towers
- Intermediate Waypoints can be used

Contact T-L, your T-L dealer, or visit [www.tlirr.com](http://www.tlirr.com) to learn more.



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151 East Hwy 6 & AB Road · P.O. Box 1047  
Hastings, Nebraska 68902-1047 USA  
Phone: 1-800-330-4264 · Fax: 1-800-330-4268  
Phone: (402) 462-4128 · Fax: (402) 462-4617  
[sales@tlirr.com](mailto:sales@tlirr.com) · [www.tlirr.com](http://www.tlirr.com)

