

# LINEAR SYSTEM



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Irrigation Solutions

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[www.aiscosolutions.com](http://www.aiscosolutions.com)  
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LIN-ENG-18



**Western**

# Squaring the Circle

• Every acre, every drop of water, every kilowatt consumed represents an investment. Optimizing these resources is critical to the success of any farming enterprise, and Pierce Linear systems can help achieve that goal.

• Our Linear systems can irrigate a variety of field shapes and sizes. Thanks to forward-thinking engineering, Pierce Linears maximize water-usage through controlled distribution. Studies show they irrigate more than 90% of rectangular parcels while using 60% less water. In addition labor costs are reduced by 50% when compared to flood irrigation methods.

## Benefits

- Flexibility. Designed to adapt to a variety of weather, crop and field conditions.
- High uniformity of distribution (up 98%)
- Optimizes water efficiency
- Maximizes the area irrigated
- Reduce operation costs
- Increases profitability

## Spans and overhangs used in the Linear Systems

• Linears can be configured with a diversity of span lengths and overhang combinations.

• Pipe diameters are typically determined by flow requirements and span and overhang lengths. Permapipe is a recommended option when irrigating with treated waste water, or corrosive fertigation elements.



Spans				Overhangs Length
Diameter		Length		
Inches	Mm	Metres	Feet	
5"	127	38.38	125'7"	1.8
5"	127	44.22	145'1"	3.7
5"	127	50.17	164'7"	5.9
5"	127	56.11	184'1"	7.8
6" 5/8	168.3	38.38	125'7"	9.6
6" 5/8	168.3	44.22	145'1"	11.9
6" 5/8	168.3	50.17	164'7"	13.7
6" 5/8	168.3	56.11	184'1"	15.5
6" 5/8	168.3	62.05	203'7"	17.8
8" 5/8	219.1	38.38	125'7"	19.7
8" 5/8	219.1	44.22	145'1"	23.8
8" 5/8	219.1	50.17	164'7"	25.6

## Modular Components

Our engines, pumps and generators are modular, and frame mounted. In addition to a wide selection of engine horsepower, flow rate and fuel tank capacity, self-priming and self-cleaning options are also available.

## Linear Options

**TAILORED TO FIT YOUR GROWING NEEDS**

Chart	High profile	Standard profile
	2 Wheels	4 Wheels
End	Center	
Water Source	Hose feed	Dich feed
Power Source	Power cord	Generator

## Two-Wheel Cart



Our **Two-wheel Cart** is perfect for smaller fields, reducing overall cost per acre.

## Four-Wheel Cart



Our **Four-wheel Cart** is built specially for traction and is capable of handling large diameter hoses for more effective irrigation of larger fields requiring higher flow rates.

## Hose Feed



The cart is built to pull. It is capable of handling up to an 8" hose depending on flow requirements.

## Ditch Suction Feed



This is an alternative for large-scale fields.

System Type	Hose Feed	Ditch Feed
System Length	Up to 1000m	
Span Diameter	5", 6-5/8" & 8-5/8"	
Power Source	Generator or Drag Electrical Cable	
Guidance System	Below-Ground Cable, Furrow or Above-Ground cable	
Field Slope	Up to 6%	Flat
Extended Coverage Option	Yes	No