



Alkhorayef  
Irrigation Solutions

download it @  
[www.piercecorporation.com](http://www.piercecorporation.com)



LIN-ENG-18

# LINEAR



**Pierce**

# Squaring the Circle

• Every square meter of land sown, every drop of water, every kW consumed and every dollar invested are of great value: this needs to be optimized by raising the yield of the crop and the return on investment.

• Linear irrigation systems can irrigate combinations of complicated shape and size. It has been shown that they irrigate more than 90% of rectangular areas using 60% less water and reducing labour costs by up to 50% (compared to flood irrigation), thanks to the optimal use of water and the high uniformity of distribution.

## Benefits

- Flexibility. Designed to adapt to a variety of weather, crop and field conditions.
- High uniformity of distribution (up 98%)
- Optimize water efficiency
- Maximize the area irrigated
- Reduce operational costs
- Increase profitability

## Spans and overhangs used in the Linear Systems

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

• The piping the diameters available are determined by the flow applied, with the option of Permapipe™ for highly corrosive or waste waters, or for applying aggressive fertigation treatments.



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

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

## Linear Options

### TAILORED FOR A PERFECT FIT

There does not exist a universal linear design, rather it is necessary to carry out a study of the needs and limitations in each case.

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



**Two-wheel** cart is perfect for smaller fields, reducing the investment per hectare.

## Four-Wheel Cart



**Four-wheel** system built specially for traction and capable of bearing a hose of large diameter is more appropriate for a larger field with high flow needs.

## Hose Feed



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

## Ditch Suction Feed



This is an alternative for large-scale field.

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

For more information contact [info.us@pierceccorporation.com](mailto:info.us@pierceccorporation.com)