

## Advantages to using our CP600 Corner System

Using variable frequency drives on the corner tower and end tower provides continuous move operation.

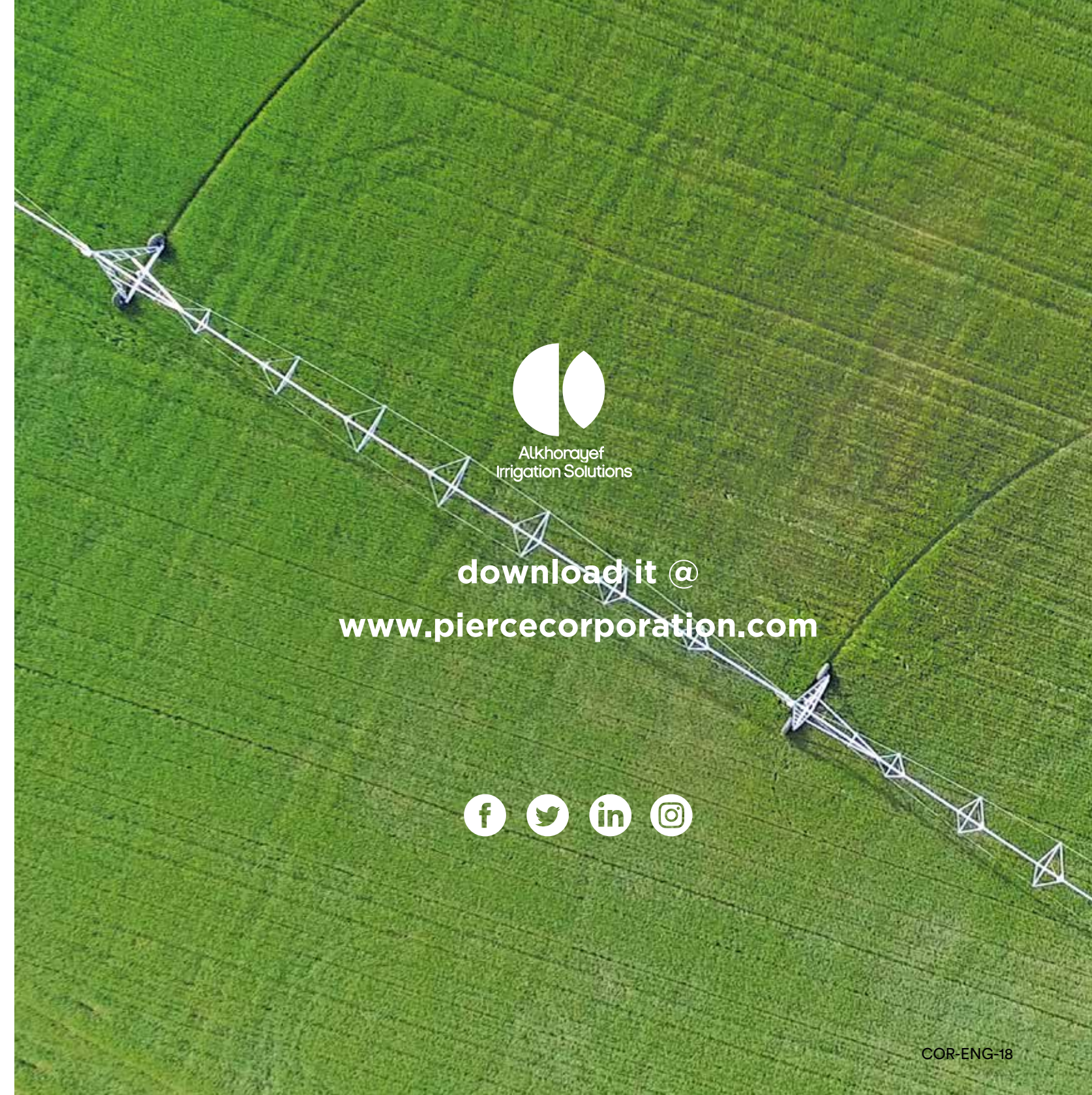
Flexibility of the connection between the pivot and the corner prevents the buildup of stress.

Ability to operate safely on slopes; the rolling base is wider and provides more stability for applications in rough terrain.

The Corner extends and retracts, automatically adjusting its water application rate, without any input from the user.

### Pierce Corner Features:

- Constant Move End Tower and Corner Span
- Variable Frequency Drive for Motor Control
- Industrial PLC Control with HMI
- Acceleration/Deceleration Sprinkler Package Optimizes Water Usage
- Buried Wire or GPS Guidance
- Unique Linear Slide Mechanism Couples the End Tower to the Corner Span
- 287.5' Maximum Span Length Including Overhang
- Inverter Duty Rated 1.75HP Drive Motors
- Heavy-Duty Drive Train is Corner Rated
- Wide Stance Wheel Base



Alkhorayef  
Irrigation Solutions

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COR-ENG-18

# CORNER SYSTEM



**Pierce**





## A Corner System

### What is a corner system?

A Corner System is a pivot with a flexible arm mounted on its end that can be extended automatically in order to reach the corners of the field where a pivot alone is unable to irrigate. The entire system is managed by control panels that allow the user to custom configure many of the system's operating characteristics and monitor operating conditions using a user friendly Human Machine Interface.

### How does a corner operate?

When the Pivot begins to pass by a corner, the arm begins to unfold and extend into the corner to irrigate additional ground. During this extension, the sprinkler spacing and runtime durations are adjusted by the control panel as needed to maintain an even application of water under the system.

### When is the installation of a corner economically viable?

The decision to install a Corner is determined mainly by the size and value of the area of the plot not being irrigated by the Pivot alone, and is usually used on square or irregular plots.

As an example, a perfect square plot of 61.8 acres, irrigated by a pivot with corner will irrigate 12.4 more acres. That is an increase of 20% of the total area of the field. Thanks to these machines, the previously unused ground under the corner can be irrigated, thus obtaining an increase in the final harvest.

The farmer should consider variables such as:

- The cost of leaving areas of the field unused.
- How much he/she has to spend to install and maintain other systems of supplemental irrigation for these corners.
- The time required to manage the combined irrigation.

Many farmers choose the Pierce corner before any other auxiliary system of irrigation.

# CORNER GPS GUIDANCE



### What is the function of GPS Guidance on a Corner Machine?

This system provides GPS based guidance of a Corner Irrigation system. Using position information obtained from up to 20 satellites and a local, remote or satellite base station, the machine is automatically guided along the pre-configured path in your field with an accuracy of less than 1 inch (2.5cm).



### Panel Operation:

The GPS Guidance control panel is shipped with the coordinates of your machine's path factory programmed. This allows you to quickly and easily install and commission your GPS Guided Corner System.

The user will be informed live by the GPS: latitude, longitude, distance from the path, latitude error, longitude error.

### Wi-Fi Hotspot

Each system comes standard with a Wi-Fi hotspot that allows you to wireless configure and monitor your GPS guidance system using only a web browser and a Wi-Fi enabled device.

Using the wireless interface, you can view all the pertinent information related to your GPS system, make changes to important settings when necessary, and view the status of the system during operation, making operation, troubleshooting and maintenance a simple task.



### Why should you use GPS Guidance?

- GPS monitors the pivot's position and steers with pinpoint accuracy.
- No underground guidance wire to bury or maintain.
- Easy start-up.
- User friendly.

