

# REINKE IRRIGATION SYSTEMS

PRODUCT CATALOG





# TABLE OF CONTENTS

ELECTROGATOR .....	3
ELECTROGATOR II – HIGH STRENGTH STEEL .....	4
PIVOT CENTER .....	5
SINGLE-LEG TOWER .....	6
V-RING SEAL .....	7
HOOK & RECEIVER JOINT .....	8
PIPE OPTIONS .....	9
GALVANIZING .....	10
ALUMIGATOR .....	11
MINIGATOR .....	12
CONTROL PANELS .....	13–14
REINCLOUD .....	15–16
REINCLOUD READY PRODUCTS .....	17–18
LATERAL MOVE SYSTEMS .....	19–20
GPS, MONITOR & CONTROLS .....	21
SWING ARM CORNER (FOLDOUT) .....	22i–22ii
ESP, ACCU-CORNER AND ENHANCED WATER PACKAGE .....	23
VARIABLE RATE IRRIGATION (VRI) .....	24–25
WRAP AND DROP SPAN .....	26
TOWABLE SYSTEMS .....	27
SPRINKLERS/PRESSURE REGULATORS .....	28–29
DRIVE TRAIN .....	30–31
SPECIALTY PIVOT OPTIONS .....	32
EVERY DETAIL MATTERS .....	33
THE REINKE DIFFERENCE .....	34
DEALERS .....	35





# GAINING STRENGTH DOESN'T MEAN ADDING WEIGHT

Facts are stubborn things. Math never lies, and high-strength steel combined with superior engineering has created irrigation systems that are lightweight and uncompromisingly durable at the same time. Yes, our pivots look different, but you'll understand the difference once the performance starts doing the talking.





# ELECTROGATOR

## IN SERVICE SINCE 1968 AND STILL GOING STRONG

In 1968, Reinke changed the game with the introduction of the Electrogator, the first reversible, electric drive center pivot with a collector ring allowing for continuous rotation. The Electrogator was also the first pivot with a span more than 100 feet in length, the first with our patented V-jack truss design and the first to use inter-changeable pipe and truss components. The first one developed is still in operation and the design (with some adjustments through the years) is still as capable as it was then. We like to say, "If it ain't broke, improve it."



Pictured: the first Reinke Electrogator, in continual operation since 1968.



# ELECTROGATOR II

## THE STRENGTH-TO-WEIGHT RATIO INDUSTRY LEADER

Everything changes with the use of high-strength, low-alloy steel. All critical structural components, including water pipe, tower bases, tower legs, truss rods and other tower components become radically lighter, more agile and yet stronger. It transforms pivots from stiff and lumbering to lightweight, bridge-like spans—flexing where they need to flex and sturdy where they need to withstand challenging field conditions.



### **FLOTATION LIKE NO OTHER**

A Reinke system eliminates three extra tons of soil-compacting weight (when compared to our competitors' machines). Considering getting a pivot unstuck or filling wheel ruts takes away time and effort from other activities, a Reinke could save you a lot over the course of its life.



### **DOCTORS SAY LOSING WEIGHT HELPS YOUR JOINTS— WE COULDN'T AGREE MORE**

Six thousand fewer pounds means considerably less stress and wear on the system's drivetrain and critical system components. Which means Reinke irrigation systems are more durable, have less downtime and need fewer repairs.

The high-strength steel that goes into Electrogator II pivots and lateral move systems can be as much as 50 percent stronger than steel used in competing irrigation systems. The result is a high-strength structure weighing as much as 20 percent less.



# THE REINKE PIVOT CENTER

## RESISTANT TO STRESS, CORROSION AND STANDS THE TEST OF TIME

Let's design a pivot center from scratch. It starts with Grade A materials that never need to be overbuilt and are engineered to withstand the stress and force exerted on them by the pivot system in all field conditions. We'll use heavy-duty, heavy-wall, full-sweep top and bottom elbows that significantly reduce turbulence and improve water flow. Electrical components will be protected by superior corrosion-resistant enclosures. Finally, we'll add a unique hook-and-receiver pipe joint connection to handle challenging terrain. In the end, it will turn out exactly like the one we've created at Reinke. Visually different, but undeniably better.

1. Topped with a corrosion-resistant, domed aluminum collector reel
2. Heavy-duty full sweep, 90° elbows at the bottom and top of the riser pipe minimize friction loss
3. Hook-and-receiver pipe joint connection provides unparalleled rotational movement and flexibility
4. High-strength 18" pivot center bearing. Uses .25" thick, close-fit tubing supported with eight strategically placed gussets
5. Riser gasket seats against a stainless steel wear sleeve, creating a long-lasting seal
6. Optional pivot center walkway
7. 6", 8" or 10" riser pipe available with eye level pressure gauge
8. Corrosion-resistant, powder coated aluminum main control panel enclosure with a pneumatic strut that holds the door open even on the windiest day
9. 8"x 3" x 1.25" roll-formed, C-channel legs for unparalleled strength and durability
10. Easily retrofitted to any competitive pivot pad when the need to upgrade existing equipment is required
11. Easily accessible, adjustable-height, main control panel mount





# THE SINGLE-LEG TOWER

## LIGHTER, YET STRONGER

When Reinke introduced the first Electrogator back in 1968, it was built with a double-leg tower similar to what our competitors use today. Soon after, we developed the single-leg tower and have continued down that innovative path—while everyone else stayed put. The result?

- A wider tower base for increased stability
- Absorbs more stress at the tower and does not transfer it directly to the water pipe
- Reduced component fatigue to maximize system life
- Less intrusive structure improves water application at the tower and causes less disturbance to taller crops
- Increased flotation for better performance



### SMARTER TOWER SUPPORT DESIGN

The more stress that's diverted away from the water pipe, the better. That's why we attach three-inch diameter, galvanized stiffeners to the bottom of the trussing instead of directly to the water pipe. Stress is distributed more evenly to the entire span and, most importantly, pipe longevity gets a giant boost.



### EXPECT BETTER PERFORMANCE AND DURABILITY—THE C-CHANNEL LEG

Our C-channel leg is a critical feature of every Reinke system. We're so confident in its design, strength and mass that we dare you to compare it to the double angle iron used in competitive systems. It's why we're able to eliminate cross bracing between the tower legs and it's why our single-leg towers always stand superior.





# OUR PATENTED V-RING SEAL BANISHES UV RAYS FOR LIFE



There are so many benefits to our V-ring seal, we can't believe it hasn't been copied like many of our other innovations. First, each seal is securely set inside the pipe and is completely protected from the deteriorating effects of UV light. **We're so confident in this design we've guaranteed it for 25 years.**

Next, unlike the competitors' T-gasket that is sandwiched between two flanges, the Reinke V-ring seal creates stronger, flange-to-flange contact (instead of flange-plastic-flange) and combines the strength of two connected steel flanges (instead of interrupting the strength of steel with a plastic T-gasket). Plus, connected flanges won't sag or settle and create potential weak spots that mean future repairs.

Finally, the V-ring seal leaves a smooth internal pipe surface while every T-gasket has an internal lip that disrupts water flow at every connection. **In every manner possible, the Reinke V-ring seal system is just a better way of connecting pipe.**

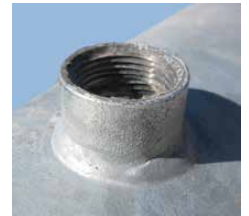


## THE DOUBLE-WALLED TOWER BOX - IT CAN'T GET ANY BETTER

Reinke's exclusive double-walled tower box provides a moisture-free environment for electrical components—it's the last place you'll ever find condensation. Its high quality, UV-resistant materials and unique design make for the strongest, longest lasting tower box in the industry. Finally, thanks to a mechanical safety interlock, no one can remove the cover without first disconnecting power to the tower.

## SPRINKLER OUTLETS

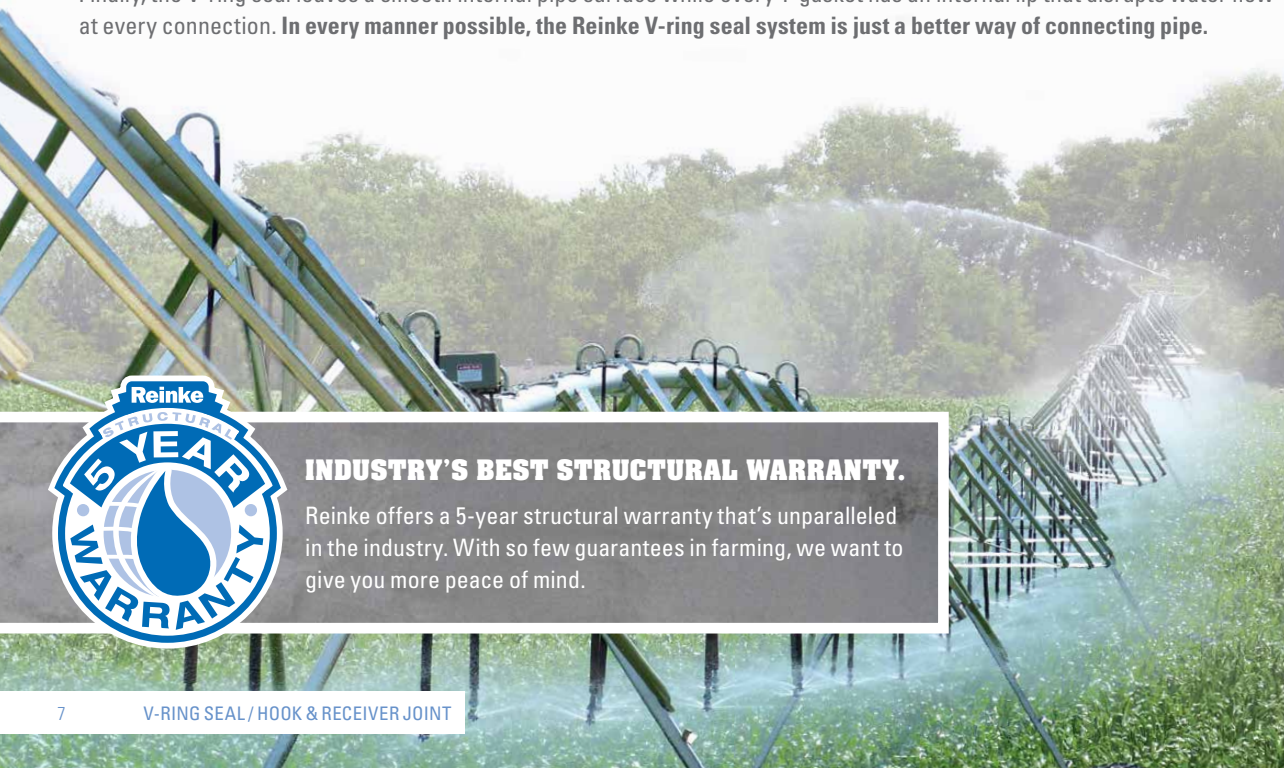
Every part matters. That's why we weld high-strength 3/4-inch, tapered, half couplers to our high-strength steel water pipe and even go a step beyond this and weld 3/4-inch, tapered, stainless steel couplers to our chromium nickel water pipe. Unlike flow-drilled couplers, welds never disrupt water flow and are inherently stronger.



## SPANS ENGINEERED FOR HIGH PERFORMANCE

Reinke spans provide a standard 57-inch outlet spacing (40-inch optional), capable of producing application uniformities as much as 98 percent or more.

The water pipe is supported by high-strength, roll-formed, truss assemblies, spaced every 19 feet (not 20 or 22 feet like some competitive machines) for even load distribution and strength. The truss rods (5/8-inch or 3/4-inch diameter) are universal in length and made of high-strength, low-alloy steel. Engineered for maximum strength and minimum weight, the Reinke system is by design, the most efficient irrigation system in the industry.

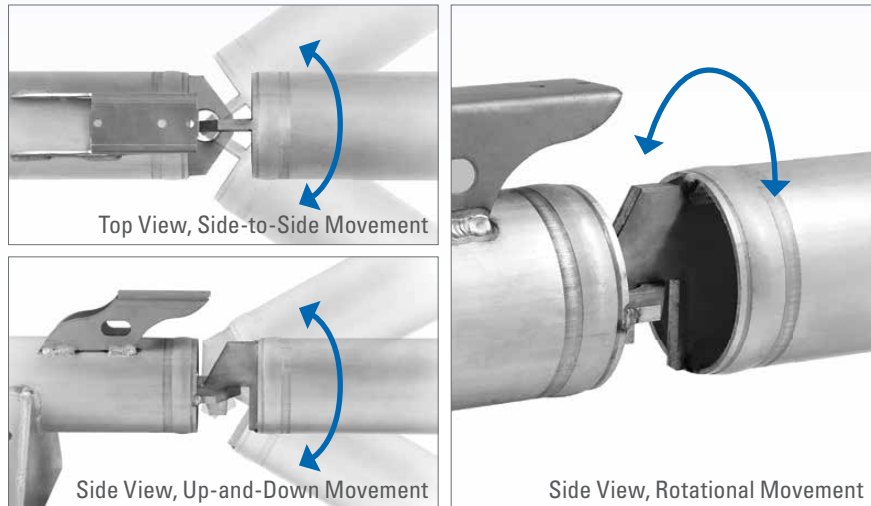


## INDUSTRY'S BEST STRUCTURAL WARRANTY.

Reinke offers a 5-year structural warranty that's unparalleled in the industry. With so few guarantees in farming, we want to give you more peace of mind.



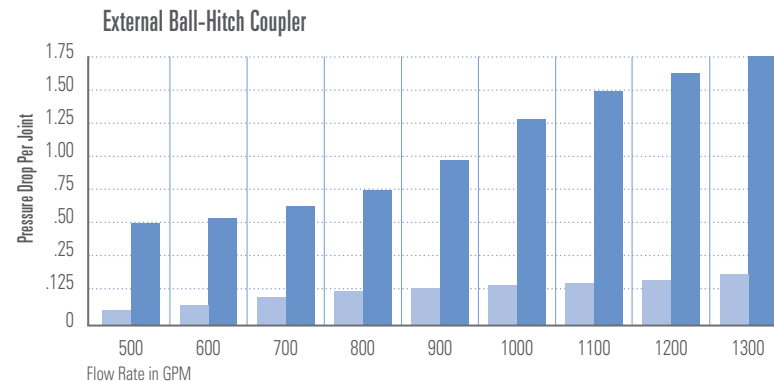
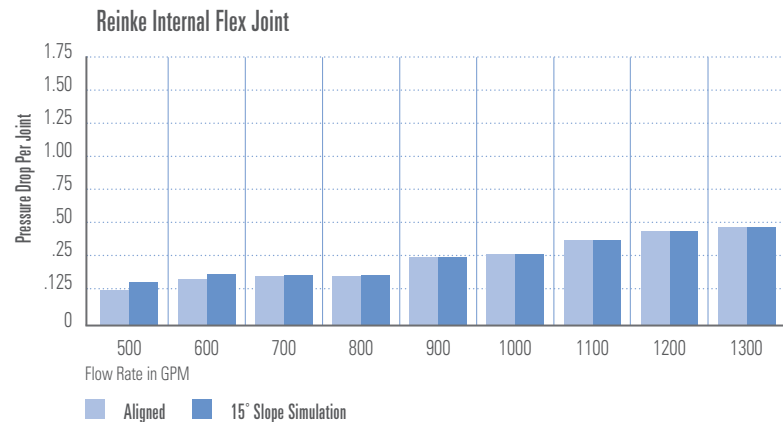
# OUR HOOK-AND-RECEIVER JOINT IS UNLIKE ANYTHING ELSE IN THE INDUSTRY THEN AGAIN, SO IS REINKE



The most efficient place to rotate within a cylinder is directly in the center, which is exactly where we placed our hook-and-receiver joint. It enables maximum flexibility across challenging terrain. Even when the span needs to roll slightly, it won't affect alignment. Plus, the internal joint allows the boot to flex without being excessively stretched, furthering longevity.

Does this system affect water flow? The answer is yes, a little. But according to a Clemson University study, it's minimal. The competition also has additional friction loss due to invasive pipe features like T-gaskets, flow-drilled couplers and misshapen span water hose connections. Again, it's superior engineering that creates yet another benefit to your operation.

## FRICION LOSS COMPARISON (WATER FLOW DISRUPTION)



Clemson University



# PIPE OPTIONS TO MATCH EVERY CONDITION



## 1 GALVANIZED STEEL:

High strength and solid corrosion protection under most conditions.

## 2 CHROMIUM NICKEL:

Withstands moderately aggressive water and farm chemicals. Offered with galvanized and protective paint options. If chromium nickel is good enough for sky scrapers and rail road tracks, it can also handle the rigors of the field.

## 3 ALUMINUM:

It's the backbone of our Alumigator® systems and creates the lightest machines in the industry (depending on the model, they can be 40 percent lighter than all-steel systems). It's a great choice for livestock and processed water applications where pH can range lower and chloride and sulfate concentrations may be somewhat elevated.

## 4 STAINLESS STEEL:

Recommended if you're pumping liquids with a wide range of pH levels and is resistant to elevated chloride and sulfate levels. It's a good option for variable water conditions such as food processing effluent.

## 5 POLY-LINED:

An excellent cost-effective option for processed water or water that has an extremely high or low pH as well as extreme chloride and sulfate levels. Our polyethylene liner is constructed from virgin materials and not from recycled plastic products. Our 3/4-inch reinforced coupler provides outstanding strength and will allow you to outfit your machine with various sprinkler and drop combinations.

Type	Model	Diameter	118' 35.97m	120' 36.58m	137' 41.76m	140' 42.68m	156' 47.55m	160' 48.77m	175' 53.34m	180' 54.87m	186.7' 56.91m	194' 59.14m	204' 62.18m	213' 64.93m
High-strength Galvanized Steel	E-2100	(10") 25.40 cm	●	●	●									
	E-2085	(8 <sup>5</sup> / <sub>8</sub> ") 21.91 cm	●		●	●	●	●						
	E-2065	(6 <sup>5</sup> / <sub>8</sub> ") 16.83 cm	●		●	●	●	●	●	●	●	●	●	
	E-2060	(6") 15.24 cm	●		●	●	●	●	●	●	●	●	●	●
	E-2045	(4 <sup>1</sup> / <sub>2</sub> ") 4.45 cm	●		●		●		●			●		
Painted or Galvanized Chromium Nickel +	E-2665	(6 <sup>5</sup> / <sub>8</sub> ") 16.83 cm	●		●		●	●	●			●		
	E-2660	(6") 15.24 cm	●		●		●	●	●			●		●
Aluminum	ALUM IV	(6") 15.24 cm	●		●	●	●	●						
	A-80G	(8") 20.32 cm	●		●		●	●						
	A-60G	(6") 15.24 cm	●		●	●	●	●						
Stainless Steel	S-2085G	(8 <sup>5</sup> / <sub>8</sub> ") 21.91 cm	●		●	●	●	●						
	S-2065G	(6 <sup>5</sup> / <sub>8</sub> ") 16.83 cm	●		●	●	●	●	●					
Poly-Lined Galvanized	PL-2085G	(8 <sup>5</sup> / <sub>8</sub> ") 21.91 cm	●		●		●	●						
	PL-2065G	(6 <sup>5</sup> / <sub>8</sub> ") 16.83 cm	●		●		●	●	●			●		



# REINKE GALVANIZING

## ReinCoat™

A Reinke system is complete when it's galvanized by ReinCoat, a subsidiary of Reinke that boasts a state-of-the-art galvanizing facility and process. This includes pre-treatment of system components in a self-enclosed pre-treatment room which prepares the components for dipping into the zinc-filled kettle contained in a white fume enclosure. The end result of the galvanizing process from ReinCoat is a superior protective coating that is ready to stand up to the elements and add further strength to a Reinke irrigation system.





# THE ALUMIGATOR

## THE INDUSTRY'S ONLY ALUMINUM SYSTEM

Since 1973, the Alumigator continues to be the world's first and only successful aluminum center pivot. Today, the Alumigator is known industry-wide as the best choice for operations like sod farms, because it's lightweight (40 percent lighter than competitive all-steel systems) and virtually eliminates wheel tracks.

The use of high-quality, marine-grade aluminum throughout the system structure also makes it a solid choice for difficult soil types or processed and highly corrosive water supplies.

The Alumigator's 16-foot wide tower base is the widest in the industry.

### **ALUMINUM PIPE/GALVANIZED STEEL STRUCTURE COMBINATIONS (A-60G & A-80G)**

Reinke delivers additional span design flexibility with our A-60G and A-80G models. Combining the same marine-grade aluminum water pipe used in our Alumigator with our high-strength galvanized system structure, these models provide high corrosion resistance and substantial weight savings when compared to an all-steel system.

*Alumigator*<sup>®</sup>



# THE MINIGATOR

## IDEAL FOR SMALLER FIELDS AND LOW-GALLONAGE WELLS

Reinke's time-proven Minigator, first built in 1969, has been redesigned as a cost-effective solution for smaller, irregular shaped fields, field corners and low-gallonage water supplies. Like our full-size pivots, it's a proven workhorse designed for years of trouble-free service.

- An excellent choice for lower flow rates and smaller fields
- Uses a compact, durable, three-leg pivot center
- Can be configured with a Kwik Tow pivot option for easy transport with a pickup or small tractor
- 4 1/2" diameter piped spans can easily and economically cover the dry areas created where several larger systems are nested together
- Equipped with all of the same high-quality components as our Electrogator II
- Minigator spans can easily be added to the end of 6" and 6 5/8" spans





# RPM CONTROL PANELS

UNPARALLELED CONTROL AND DEPENDABILITY MEET SIMPLICITY OF USE

Reinke Precision Management (RPM) control panels are custom built to give you reliability and trouble-free use. Plus, if your needs change over time, upgrades and customization are easy, thanks to compatibility between each RPM system.



## RPM BASIC

- Our value priced panel built with the same high quality components as our premium panels
- High quality, powder coated steel enclosure
- Meets all UL and C/UL requirements
- Standard features include commercial or generator power, end gun control, speed control, directional operations and start/stop



## RPM STANDARD

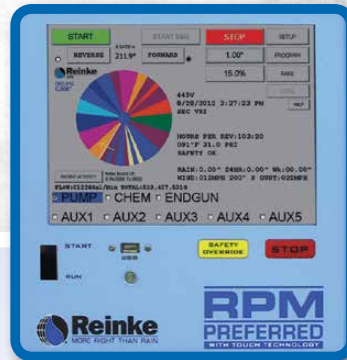
- Equipped with all of the features needed for today's grower
- High quality, powder coated aluminum, corrosion resistant, main control panel
- Meets all UL and C/UL requirements
- Standard features include commercial or generator power, end gun control, speed control, directional operations and start/stop





### RPM ADVANCED

- Equipped with digital PAC III timer that provides increased features and accuracy
- Integrated GPS end-of-system controls for unparalleled accuracy
- High quality, powder coated aluminum, corrosion resistant, main control panel
- Meets all UL and C/UL requirements
- Includes all the features of our RPM Standard panel **plus**:
  - *Ontrac compatible*
  - *Easy to program*
  - *30- to 60-second cycle time options*
  - *Customized speed and end gun settings in up to 10 different sections of your field*
  - *Control two end guns or one end gun and another auxiliary output*
  - *Delay at selected barriers*
  - *Repeatable accuracy*



### RPM TOUCH SCREEN

- Visual, instinctive, easy to program user interface
- Designed and built for extreme temperatures
- Integrated GPS end-of-system controls for unparalleled accuracy
- High quality, powder coated aluminum, corrosion resistant, main control panel
- Meets all UL and C/UL requirements
- VRI ready
- Includes all the features of our RPM Standard and Advanced panels **plus**:
  - *Records thousands of events for later download to your base PC*
  - *Customizable step and sector programming combined with 1/10° accuracy for more precise application (ex. if a competitive machine is within 27" the Reinke is at 2.7")*
  - *Sunlight-readable touch screen*
  - *Windows®-based operating system*
  - *Multilingual*
  - *Onboard help screens*
  - *Download updates online*
  - *Onboard graphic applications for rain, pressure, flow, temperature, voltage and wind*
  - *Ontrac compatible*
  - *Programmable alarm inputs*

	BASIC	STANDARD	ADVANCED	PREFERRED TOUCH SCREEN	FEATURES AND OPTIONS
	0	0	S	S	Lightning Arrestor
	0	0	S	S	Power Auto Restart
	0	0	S	S	End Gun Control
	0	0	S	S	Pivot Auto Stop Control
	0	0	0	S	Flow Meter
	0	0	0	0	High/Low Voltage Setting
	0	0	0	0	Generator/Well Control
	0	0	0	0	Ground Fault Protection
	0	0	0	0	Single Phase
	0	0	0	0	Injector Receptacle Kit
	0	0	0	0	Frost Switch
	0	0	S	S	Pivot Auto Reverse Control
	-	0	0	S	Injector Pump Switch
	-	0	0	0	Low Voltage Safety
	-	0	0	0	UL Approval
	-	-	0	0	GPS Positioning
	-	0	0	0	Pressure Restart
	-	-	S	S	Programmable System Startup
	-	-	S	S	Two End Guns/Auxiliary Outputs
	-	-	0	0	Temperature Restart
	-	-	S	S	Programmable Park
	-	-	S	S	Position Auto Reverse
	-	-	S	S	Position Programmable
	-	-	S	S	Multiple Speed Settings
	-	-	0	0	Ontrac Remote Monitoring & Control
	-	-	-	S	Configurable Alarm Inputs
	-	-	-	S	Programmable Auxiliary Inputs
	-	-	-	S	Date/Time Programmable
	-	-	-	S	Logs/Record Keeping
	-	-	-	S	Programmable Chem. Pump Control
	-	-	-	S	Graphical Display of Data
	-	-	-	S	Start Sequencing
	-	-	-	S	Water Application Scheduling
	-	-	-	S	LCD Touchscreen
	-	-	-	S	Integrated Help Screens
	-	-	-	S	Start/Stop by Flow
	-	-	-	0	Rain Gauge/Wind Vane
	-	-	-	S	Variable Rate Irrigation (VRI)

### CONTROL SYSTEM COMPARISONS

S	Standard	0	Optional	-	Not Available
---	----------	---	----------	---	---------------



# REINCLOUD™ AG-DATA SERVICES

INTRODUCING A BETTER WAY TO COLLECT AND DISPLAY FIELD AND IRRIGATION DATA FOR IMPROVED IRRIGATION MANAGEMENT

## NAVIGATION MENU

### Notifications

Stay informed on system status through in-app notifications.

### Sites, Weather & Map

Organized data by sites, zones and equipment.

### Dashboard

Quickly view irrigation system status and other widget data all in one dashboard.

### Equipment Search

Search for your equipment by site and zone.

### Run Queue

Check the status of equipment controls.

### Help & Support

Access tutorials or chat with a representative.

### Your Profile

Easily adjust notification delivery and account settings.





Built for growers and producers worldwide, ReinCloud™ Ag-Data Services is an online software that helps you combine field and irrigation data into one easy-to-use dashboard. Whether it's irrigation monitoring and controls, soil moisture or weather data you're looking for, ReinCloud is easy to use, informative and ready to put your ag-based data to work.



### Responsive Display

Get everyday access on your devices whether it's a smartphone, tablet, laptop or computer.



### Irrigation Widgets

Irrigation widgets are smart icons that can display data at a glance. Click on a widget for more details and equipment control options.



### Field Sensing Devices

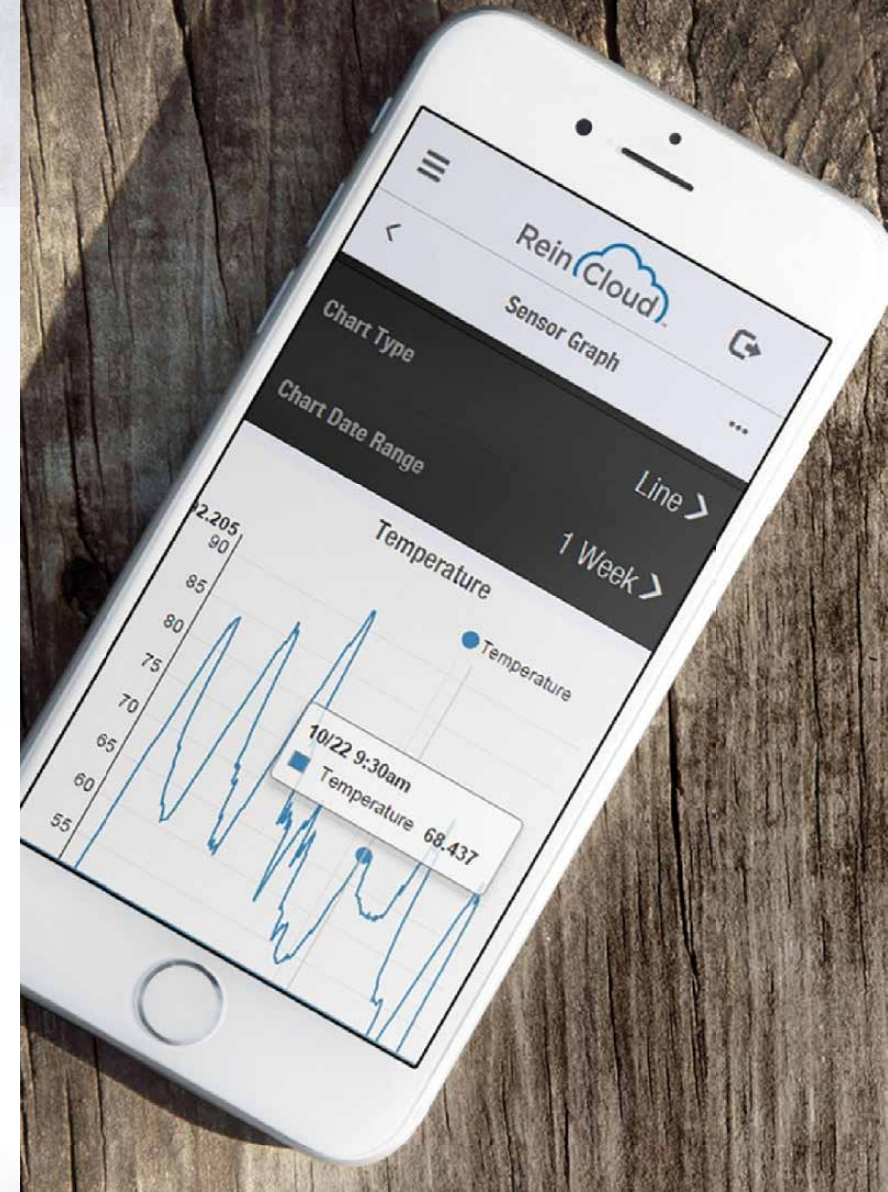
Check soil moisture, weather, and other environmental data with compatible ReinCloud Ready™ products.

## SOFTWARE FEATURES

ReinCloud includes the following features:

- Safe and secure data services
- Data organization by site and zone
- Customizable dashboard
- Access on everyday devices
- Notifications through option of Text, Email, App or Voice.
- Irrigation Equipment Widgets
- Soil Moisture & Weather Equipment Widgets
- Reports
- Data Sharing
- Weather Widget powered by WeatherUnderground™
- Aerial Map View
- Data graphing

Built using the latest in data collection, storage, processing and presentation, ReinCloud is a great tool for any producer.



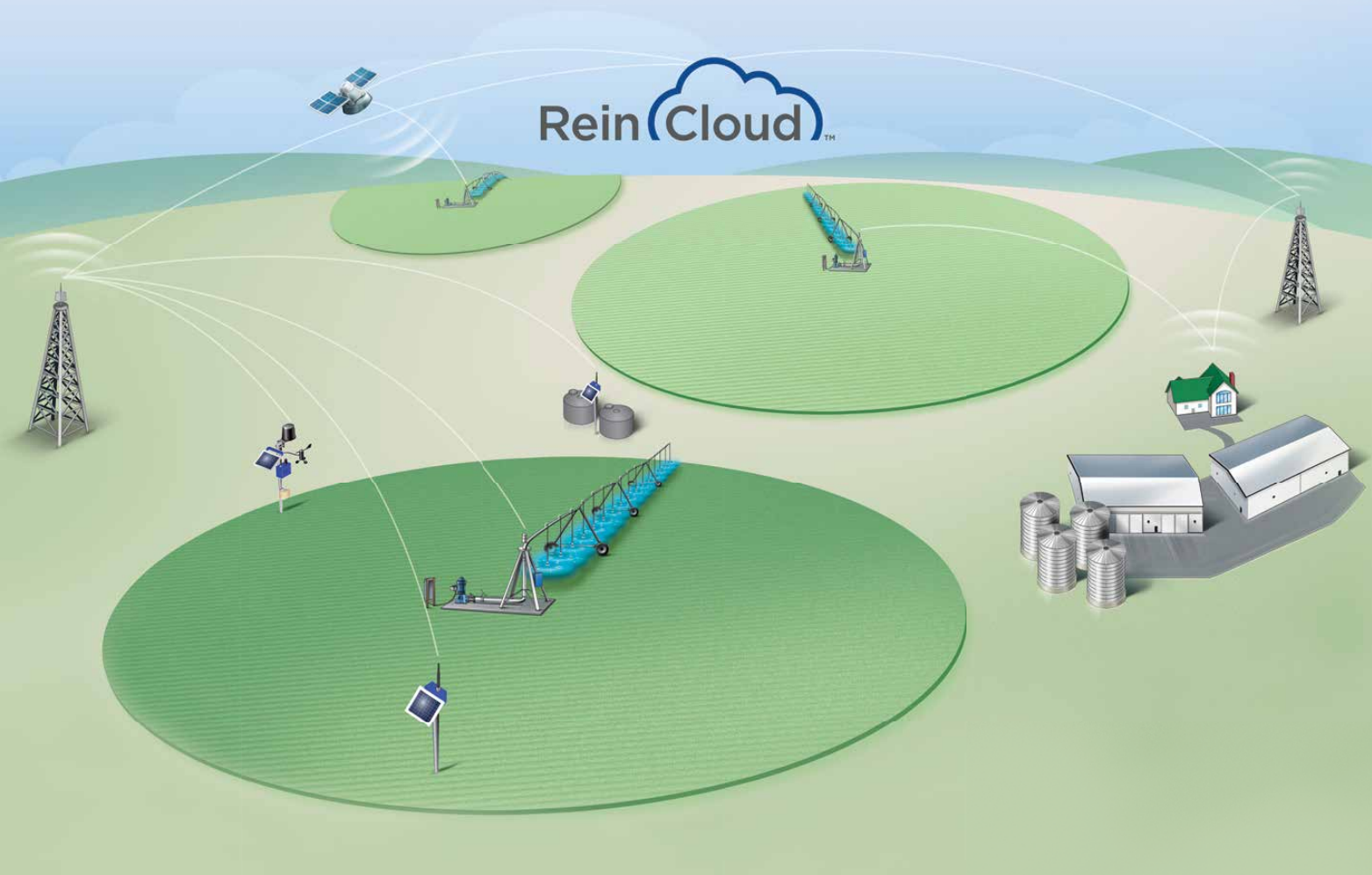
Learn more at [www.MyReinCloud.com](http://www.MyReinCloud.com).



# REINCLOUD READY PRODUCTS

## HOW IT WORKS

Data in the field is collected a variety of different ways. ReinCloud Ready products make it easy for you to gain access to a wide range of equipment using satellite, cell or radio communications, bringing it home into one easy-to-use-dashboard. From irrigation controllers to soil moisture stations, ReinCloud Ready products can provide you with the right data, making it easy for you to make informed decisions when it comes to your operation.



### IRRIGATION MANAGEMENT HARDWARE

EQUIPMENT OPTIONS	SATELLITE	CELL	CELL PLUS	SATELLITE PLUS	RADIO
Start	X	X	X	X	X
Stop	X	X	X	X	X
Direction	X	X	X	X	X
System Position	X	X	X	X	X
Pressure	X	X	X	X	X
Power Status	X	X	X	X	X
Pump	—	—	X	X	X
Speed	—	—	X	X	X
Park	—	—	X	X	X
End Gun	—	—	X	X	X
Chemical Pump	—	—	X	X	X*
Flow	—	—	X	X	X*
Safety	—	—	X	X	X*
Rain	X	X	X	X	X*
Running/Stopped	X	X	X	X	X
Wind Speed	—	—	—	—	X*
Wind Direction	—	—	—	—	X*
Temperature	—	—	—	—	X*
Auxiliary 1	—	—	—	—	X*
Pressure Transducer	X	X	X	X	X*
Wind Theft Alert	X	X	—	—	—

\*Select Models





## RS300 FIELD STATION OPTIONS

Every RS300 node is compatible with a variety of sensor options. Choosing which station is right for you will help you get started. Within each station type there are many options of sensors to choose from. Whether you're looking for tank level data or for a full weather and climate station, the RS300 can provide a versatile and reliable platform using the following station options.

### WEATHER & CLIMATE

RX30 Weather Station Combo

Wind Speed & Direction

Ambient Temperature

Humidity

Rainfall

Leaf Wetness

Solar Radiation

### WATER METERING

Pressure Transducer  
0–50PSI

Pressure Transducer  
0–200PSI

Ultra-Sonic Water Level

Submersible Water Level

Deep Well Water Sensor

Pressure Switch

Flow Meter Monitoring  
(select digital meters)

### SOIL MOISTURE

Sentek® enviroSCAN Probe

AquaCheck® Sub-Surface Probe

Decagon® 5TE Probe

Rein  Ready™

# LATERAL MOVE SYSTEMS

Our Electrogator and Alumigator lateral move systems receive the same high quality materials and attention-to-detail engineering as the rest of our irrigation line. They also have enough custom features to match your exact needs. When the goal is watering your square or rectangular field while conserving water, look no further than Reinke.



## **2-WHEEL POWER TOWER/HOSE PULL**

Our 2-wheeled option offers great versatility with features such as forward and reverse tow options, double inlet hose systems, internal check valves and quick coupler connections on both ends. A double-end feed option is also available.



## **4-WHEEL POWER TOWER/HOSE PULL**

Our best option for larger fields. Floating axles keep all four tires on the ground, allowing this unit to pull large hoses (up to 8 inches) as required by high flow systems. With either power cord pull or an onboard power supply, this is your right-hand man.



## GUIDANCE SYSTEM OPTIONS

**Navigator GPS** – Provides extreme accuracy in timing and application.

**Furrow** – Uses specially designed wheels that track a V-furrow parallel to the travel path.

**Buried Wire** – Requires less maintenance and creates no obstacles.

**Cable** – Assures accurate lateral movement and uniform water distribution over the entire field.

**Fence** – Requires minimum maintenance and creates no additional obstacles in the field.

*Please see page 21 for a full list of GPS benefits.*



## PIVOTING LATERAL

With one system you can now receive the benefits of both pivot and lateral move irrigation. With this highly versatile system, you can plan multiple paths for one rectangular field, L-shaped fields or numerous irregular configurations. It uses only one cart path and no towing is necessary.

## CANAL FEED

The Reinke Canal Feed system carries its own pumping equipment and generator within its compact and clean design. You'll also receive annual energy savings from its ability to reduce system pressure loss by using the center-feed option in larger fields.





# THE FIRST, THE BEST AND THE LEADER IN GPS

**Reinke**  
**NAVIGATOR™**  
SERIES OF GPS CONTROLS

When you're looking to guide the end tower of your system, swing arm corners or lateral move systems, there's no better choice than the Reinke Navigator GPS system. You'll receive unmatched precision, which is critically important when applying chemicals or maximizing acres. GPS is also virtually maintenance free, saving you time, labor and money. Considering we were the **FIRST** to bring GPS to irrigation systems, you can be assured we'll always be ahead of the curve.

## END OF SYSTEM GPS CONTROLS

- Using a Wide Area Augmentation System (WAAS) GPS network it provides unmatched accuracy and position information when compared to mechanical and end gun control devices. WAAS is a network that provides additional information from fixed point reference stations to augment information gathered and calculated by the Navigator GPS.
- Improves end gun control with all system configurations
- Can be used on any existing Reinke system and most competitive brands

## GPS GUIDANCE FOR SWING ARM CORNERS AND LATERAL MOVE SYSTEMS

- Utilizes Real Time Kinematic (RTK) surveyor grade GPS signal that provides the ultimate in steering accuracy and system guidance. RTK surveyor grade GPS utilizes a position location process whereby signals are received directly to the user's base GPS receiver and then transmitted to the GPS receiver located at each individual system.
- Ideal for rocky soil or land with underground pipelines that make the installation of buried wire a hassle
- No costly retrenching if field parameters change
- GPS is virtually maintenance free, saving you time, labor and money





# SWING ARM CORNERS

## ADD ACRES WITHOUT BUYING LAND

Add up to as many as 26 additional acres depending on the combination of swing arm and components. To view it another way, you can now irrigate 158 out of 160 acres on a quarter section, or 98.7 percent of total acres. In certain field configurations the number of additional irrigated acres can increase dramatically.

- Backed by a factory-trained dealer network
- The same, proven structural integrity found in all Reinke products
- Utilizes design features that need less maintenance
- Less stress transferred to system components
- Adapts to almost any competitive center pivot brand
- Navigator GPS guidance available for precise path control
- Added features include RPM control panel, ESP and Accu-Corner
- Features GPS guidance and more efficient water application package options
- Allows operators to change the orientation to either a “leading” or “trailing” position to increase the number of irrigated acres in part circle applications

### THE REINKE MINI-SWING ARM CORNER (MINI-SAC)

- Ideal for smaller or irregularly shaped fields
- 156' span with 51' end boom or 175' span with 61' end boom

### THE REINKE SWING ARM CORNER (SAC)

- 280' length provides 370' of coverage or more when end gun throw is included

### THE REINKE SUPER SWING ARM CORNER (SSAC)

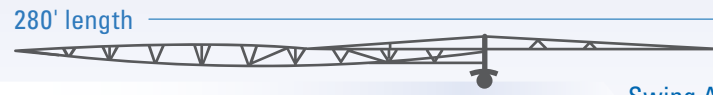
- The industry's longest end boom/span combination
- SSAC delivers 408' of coverage or more when end gun throw is included
- Add more acres in fields that are oblong in shape





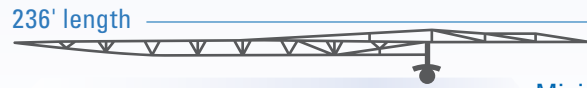
Mini-SAC

156' span with an 51' end boom, slope limitation 15%



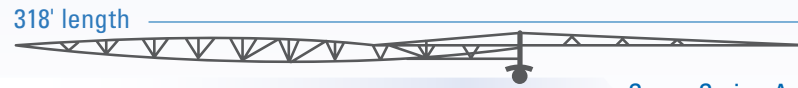
Swing Arm Corner

194' span with an 86' end boom, slope limitation 12%



Mini-SAC

175' span with 61' end boom, slope limitation 12%



Super Swing Arm Corner

213' span with 105' end boom, slope limitation 10%



**5-YEAR STRUCTURAL WARRANTY**

- The longest structural warranty in the industry.





# ESP, ACCU-CORNER AND ENHANCED WATER PACKAGE

## ENERGY SAVER PACKAGE (ESP)

ESP is Reinke's patented, cost-saving sprinkler package for swing arm corners. Instead of increasing pressure, it utilizes a series of automatic valves to supply additional GPM/acre.

- Save hundreds of dollars every season
- Enables pump to operate more efficiently
- Simplifies settings for chemigation
- Reduces operating hours per application as well as equipment use, wear and related costs
- Available with SAC or SSAC

## DIESEL FUEL COST SAVINGS WITH ESP

1000 GPM Pumping Unit	Without ESP	With ESP
System GPM Extended/Retracted	1,000/590	850/850
System GPM Transition Phase	590-1,000	660-1,010
GPM/Acre	4.7	5.6
Hours to Apply 1"	96.1	86.9
Pumping Depth	120	120
Horsepower Hours to Apply 1"	6,609	5,935
Diesel Fuel Cost to Apply 1"	<b>\$1,212.40</b>	<b>\$1,089.20</b>

(Annual savings based on 12 inches per year: \$1,478.40. Assuming diesel fuel at \$3.50 per gallon and consumption at .36 LB/HP\*HR)

## ACCU-CORNER

The Reinke Accu-Corner technology assures even, accurate water application throughout the corner to minimize over or under watering.

- Programmable logic controller optimizes application uniformity
- Uses 12 groups of sprinklers and up to 62 programmable stages
- Unique operator interface aids in troubleshooting
- Available with SAC or SSAC

## ENHANCED WATER PACKAGE

Provides an additional bank of sprinklers on the swing arm corner to improve application uniformity during the swing arm corner extension.

# VARIABLE RATE IRRIGATION (VRI)

## OPTIMIZE WATER DISTRIBUTION—MAXIMIZE EVERY PLANT'S POTENTIAL

Variable rate irrigation uses unique field prescriptions (Rx) to apply precise amounts of water to match numerous variables within each field. Multiple prescriptions can be created for each field using our VRI tool that comes with the RPM Touch Screen panel or by contracting a third party to conduct highly precise surveys to determine soil variables and define topography. You'll then be able to load each Rx into the touch screen panel with a USB drive and immediately verify that everything is running properly. (Reinke is the first in the industry to integrate VRI and GPS into a touch screen control panel, providing another level of ease.)

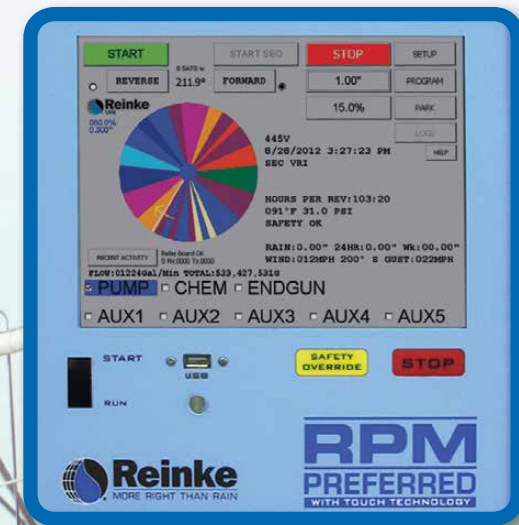
### FEATURES INCLUDE:

Select the prescription that most accurately fits your current irrigation needs that day with the flexibility to easily switch prescriptions if conditions change.

- Full-color display
- View and select multiple prescriptions
- View the prescription while pivot is running
- See pivot location within each prescription
- Validate prescription is running as programmed
- Create prescriptions from multiple sources including aerial images, USDA web soil surveys and yield data

### IRRIGATION VARIABLES INCLUDE:

- Soil changes
- Slope
- Drainage
- Crop
- Seed population
- Rain events
- Drought
- Yield fluctuations

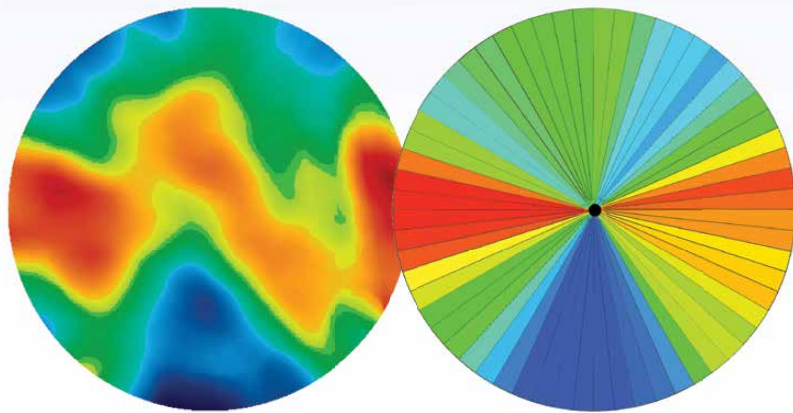




## TWO PRESCRIPTION METHODS

### OPTION 1: SPEED VRI

Slice the center pivot pie



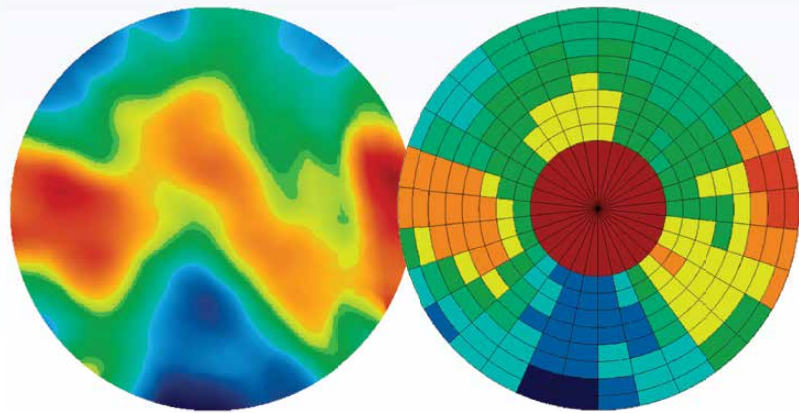
Field Scan

VRI Prescription

Speed VRI is economically accomplished by segmenting the pivot path into multiple pie-like slices (sectors). Each unique irrigation depth is achieved by altering the pivot speed at each slice. The Rx may concentrate on the outer 30 to 50 percent of the pivot circle, which accounts for 50 to 75 percent of the total area within each slice. Each slice can also be accurately proportioned down to one-tenth of a degree (3,600 increments) to provide maximum control of the water being applied. Base application depth can be easily adjusted higher or lower without changing the Rx.

### OPTION 2: ZONE VRI

Find new potential



Field Scan

VRI Prescription

Zone VRI divides the pivot coverage area into two or more rings (zones) around the pivot point. Reinke VRI can control as many as 84 zones. When combined with the segmenting sectors, an even higher level of precision is possible by creating up to more than 300,000 independent zones within the field. Irrigation rates are achieved through individually controlled sprinkler banks, allowing an almost unlimited number of precision water application combinations. Variable Frequency Drive Pumps may be required and are recommended to minimize pressure fluctuations. Additional components required for Zone VRI include independently controlled sprinkler valves, sprinkler control valve boxes and air compressor.

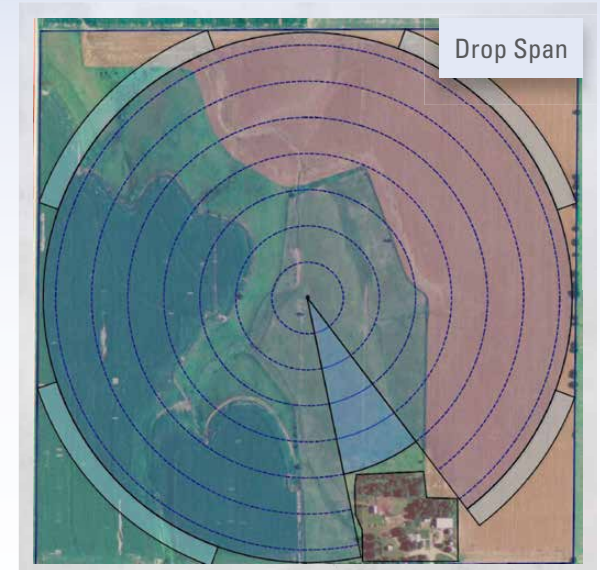
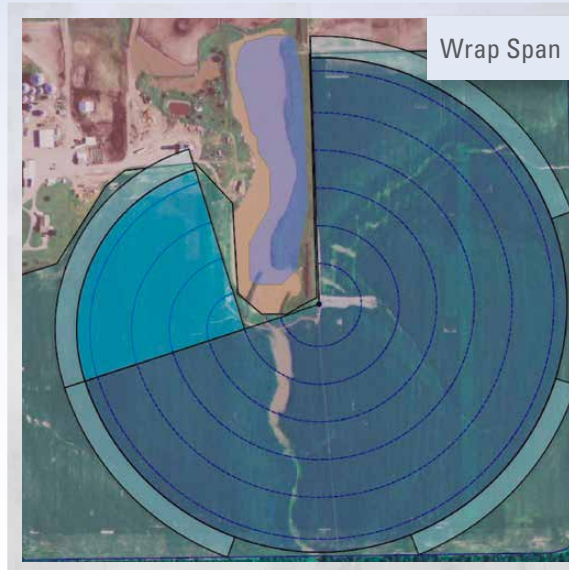
# WRAP SPAN AND DROP SPAN

## WRAP SPAN

Whether for buildings, tree lines or unique field dimensions, the Reinke Wrap Span allows you to irrigate acres that were previously off-limits to center pivot irrigation. By placing the Wrap Span system in one or more joints (except the last bendable joint), you can wrap your pivot with or without the SAC or SSAC option up to 180 degrees.

### Two configurations

- Wraps up to 10° – utilizes a standard joint
- Wraps up to 90° – uses a span joint that reroutes the water through a flexible coupler



## DROP SPAN

The Reinke Drop Span lets you easily disconnect one or more pivot or lateral move spans and proceed past an obstacle to irrigate previously unreachable acres. It also enables you to pick up an additional span or spans of a different length if the field widens on the opposite side of the obstacle. Adjustable legs also allow you to keep the span off the ground when it's disconnected. Furthermore, the auto-stop function self-aligns the parent system to the dropped span for ease in connecting.



# TOWABLE SYSTEMS

When your operation demands the flexibility that a towable system provides, Reinke can meet your requirements with a broad range of towable models—all built with our hallmarks of strength and efficiency.

## FOUR-WHEEL PIVOT MOVER

The Four-Wheel Pivot Mover is unique in its ability to quickly adapt to movement in multiple directions. Wheel hubs are mounted on base beams and can be quickly swiveled 90 degrees. Plus, the quick hitch can be moved to any side for easy towing.



An economical skid tow option is also available.

## TWO-WHEEL KWIK TOW

The Two-Wheel Kwik Tow sets the standard for short field towable pivot systems. Without a doubt, the reliability and convenience of the Kwik Tow is unmatched in the industry. It's available with a hydraulic lift option as well as a motorized Kwik Tow Kit that allows you to move the system laterally for short distances.



## REVERSE TOW STEERING LINKAGE

When the system needs to be towed from the end-boom side, the Reverse Tow is the best fit. It's only available from Reinke.



# SPRINKLERS AND PRESSURE REGULATORS

## SPRINKLER OPTIONS

Reinke has always offered only the best sprinkler products to provide a multitude of droplet sizes and pattern widths using advanced rotary, offset axis rotary and fixed spray sprinkler technologies best suited for the specific crop or application. Whether you use our standard water pipe with 57-inch sprinkler outlet spacing or our LEPA (Low Energy Precision Application) water pipe with 40-inch sprinkler outlet spacing, we have the sprinkler products available that are capable of generating desired application rates. By utilizing a variety of plates, operating pressures, mounting heights and sprinkler spacing we can custom design a sprinkler package to fit virtually every field.

## GENERAL SPRINKLER PERFORMANCE SPECIFICATIONS

SPRINKLER	PRESSURE RANGE (PSI)	PATTERN/STREAM TYPE	WETTED DIAMETER		APPLICATION	
			@ 12' HT	@ 6' HT	INTENSITY	AVG. RATE
1 Impacts	30 to 60	1 or 2 Slow Rotating Streams	80–100'	NA	HIGH	LOW
2 Rotators	15 to 30	Multi-Trajectory, Multiple-Slow Rotating Streams	68–78'	48–68'	MEDIUM	LOW–MED
3 Orbitors	10 to 20	Offset Axis, Multi-Trajectory, Multiple-Fast Rotating Streams	NA	44–60'	LOW–MED	MEDIUM
4 Spinners	10 to 20	Full-Random, Multi-Trajectory, Multiple-Fast Rotating Streams	NA	44–56'	LOW	MEDIUM
5 i-Wob	10 to 20	Offset Axis, Multi-Trajectory, Multiple-Fast Rotating Streams	NA	34–57'	LOW	MEDIUM
6 Xi-Wob	10 to 15	Offset Axis, Multi-Trajectory, Multiple-Fast Rotating Streams	45–50'	34–53'	LOW	MED–HIGH
7 Accelerators	6 to 15	Multi-Trajectory, Multi-Variable Speed Rotating Streams	50–60'	36–59'	MEDIUM	MEDIUM
8 Sprays	6 to 30	Multi-Trajectory, Fixed Streams	34–55'	24–45'	HIGH	MED–HIGH
9 Twister	6 to 20	Dimensional Rotation Around Central Sprinkler Axis, Multiple-Fast Rotating Streams	34–63'	32–57'	LOW	MEDIUM







## PRESSURE REGULATORS

Pressure regulators eliminate the pressure variation at the sprinkler nozzle caused by:

- Variations in available water supply
- Elevation changes within the field
- Fluctuations in demand such as end guns and swing arm corners

Pressure regulators are also useful for reducing higher pressures near the pivot point where the sprinkler nozzles are the smallest, thus minimizing plugging, wind drift and evaporation. They are required for use with many of the sprinkler options that have been engineered for operating pressures within a specific range, for optimum water application, extended life of the product and ultimately increased yield.



## DROPS AND SPRINKLER ACCESSORIES

As always, Reinke also offers a wider variety of sprinkler mounting components to customize your system to your specific needs. Contact your Reinke dealer for more information.

## END GUNS AND BOOSTER PUMPS

End guns are an economical way to add profitable acres to your farm operation. The optimum operating pressure for an end gun can range between 40 and 70 psi and is based largely on the nozzle size of the end gun which is determined by the system length, total system flow (gpm), operating pressure and the distance of throw or effective coverage of the end gun.



## RECOMMENDED END GUN OPERATING PRESSURE

NOZZLE	END GUN PSI	END GUN GPM	BOOSTER PUMP/PSI BOOST	EFF. COVERAGE
.40"	40–50	28–32	2 HP / +32	59–63'
.50"	43–53	47–53	2 HP / +33	75–81'
.60"	46–56	71–79	2 HP / +33	86–92'
.70"	50–60	100–110	2 HP / +31	97–103'
.80"	54–64	138–151	2 HP / +28	108–114'
.90"	57–67	172–187	5 HP / +33	115–121'
1.0"	60–70	211–228	5 HP / +28	125–133'

Reinke understands the importance of efficiency. That's why we locate the booster pump at the end gun with full sweep elbows to minimize the costly friction loss and additional weighty components associated with mounting the booster pump at the end tower.



# TAKE A LOOK AT THE BEST WHEEL GEARBOX IN THE INDUSTRY AND ITS 10-YEAR/10,000-HOUR WARRANTY

## EVERY DETAIL HAS BEEN ENGINEERED THROUGH THOUGHT AND KNOWLEDGE FOR A POWERFULLY BUILT GEARBOX

1. Stainless steel diaphragm cover provides years of corrosion-free life
2. The largest input bearings in the industry provide 55 percent greater load capacity for today's larger tires and faster rotation times
3. Polished, high-strength worm gear with dual input shafts eliminates the need to stock lefts and rights
4. Seal protector blocks out contaminants and extends seal life
5. Unique rolling diaphragm design minimizes pressure build-up during operation. Relieving negative pressure prevents water and contaminants from being drawn into the gear case.
6. Centering ring doubles as a load-bearing surface, relieving stress on the lug bolts and lessening potential wheel damage
7. Large 2 1/4-inch diameter output shaft and flange made of high-strength steel to handle tower loads
8. Cartridge style input and output seals utilize a multi-lip design and precision ground, polished sealing surface to eliminate oil leaks
9. Reinforced housing provides more material in high stress areas, increasing overall strength on the gearbox. Multi-bolt mounting pattern fits all brands
10. End cap is machined from cast steel to handle the higher loads from larger tires
11. Input shaft cover protects against seal and shaft damage
12. Non-seizing drain and fill plug for easy maintenance
13. New bull gear, designed for greater tooth contact, resulting in higher load capacity and longer life
14. Dual input shafts allow for universal mounting on either end of tower base



### SPRINKLER LUBE® 1200

Save hundreds on gearbox oil (not to mention down time) with proper maintenance and Sprinkler Lube® from Reinke.



### TOWABLE GEARBOX

Like the non-towable version, it also has a 10-year/10,000-hour warranty and possesses the same high quality features and components.



# THE REINKE CENTER DRIVE YEARS OF TROUBLE-FREE SERVICE



A high efficiency gear motor delivers exceptional torque to propel your system over the roughest terrain and through difficult soil conditions. Specifically designed and built for the demands of mechanized irrigation.

- 8-year, 8,000-hour warranty
- Helical Gear Design – 95% efficiency
- All aluminum gear case and motor housing assures cooler running, longer life and increased corrosion resistance
- Multi-bolt mounting pattern fits all brands
- High-strength steel shafting provides long life and dependability
- Thermally protected with automatic reset
- Heat-treated gears
- Specially designed input and output seals
- Top fill plug positioned to set correct oil level
- All critical electrical connections are encapsulated to resist moisture penetration
- C.S.A. and UL approved
- Stainless steel junction box cover
- Dual shaft seals
- New high capacity outer motor bearing
- 3 Output RPMs
  - Low** 60:1 ratio or 29 RPM
  - Standard** 40:1 ratio or 43 RPM
  - High** 25:1 ratio or 70 RPM

# SPECIALTY PIVOT OPTIONS

## SINGLE-PHASE OPTION

Reinke's 230-volt single-phase option is ideal for center pivot systems running on small acreage fields where 480-volt three-phase power is not available. Single-phase systems are limited to a maximum length of 1000 feet or six towers, and are offered in all pipe materials using standard household power.

## MINI-PIVOT

The Reinke engine driven Mini-Pivot is a single span system ideal for small fields and areas where power access is limited. It comes with a variety of gearbox, span length and end boom options and has a maximum system length of 318 feet.



## FLEXIBLE THREE-WHEEL TOWER BASE

Our patented, award-winning tower base keeps all three tires on the ground at all times, placing a more consistent load on the drive train even while providing power to all three wheels. Keeping all three wheels on the ground reduces the load on each tire and improves flotation, thereby reducing wheel ruts.



## RIGID THREE-WHEEL TOWERS

Reinke three-wheel towers provide the additional flotation needed for soil types that easily rut and will also help in traversing difficult terrain. Our three-wheel tower option is also more efficient and more economical than competitive four-wheel tower options that add more weight to the system and more components to maintain.



## SPAN CABLE CLAMP

Lock-down valuable cable for additional peace of mind.



# EVERY DETAIL MATTERS



Radial Tires 320/85R38

11" x 22.5"

11.2" x 24"

14.9" x 24" (for turf)

14.9" x 24"  
(non-directional  
option available)

16.9" x 24"

11.2" x 38"

13.6" x 38"

## BARRICADES: AN EXTRA MEASURE OF SAFETY

A barricade is a must if your pivot doesn't move in a complete circle. With our long lasting galvanized permanent or movable barricade options, you can be sure your pivot stops or reverses where you want it to, time after time.



## REINKE DESIGN PRO (RDP)

The Reinke Design Pro is the most advanced method for designing a custom irrigation system. When coupled with your dealership's knowledge, RDP helps ensure you're getting a system that best matches your field's unique characteristics. It includes:

- Design based on up-to-date, NRCS maps and GPS coordinates to perfectly visualize the irrigation system coverage
- Inclusion of waterlines, pumping stations and obstacles for a complete overview
- Calculations of total irrigated acres
- Summaries of multiple options based on your needs
- Turns proposals into survey-ready projects



## FINE-TUNING YOUR REINKE SYSTEM INCLUDES PROPER TIRE SELECTION

We match the span, weight and tire size to soil and terrain conditions to maximize efficiency while continuing to minimize rutting.



Rhinogator



Mach II

# THE REINKE DIFFERENCE

Since 1968, being “different with purpose” has been at the core of all Reinke irrigation systems, which is why we’ve been the irrigation system of choice for farmers worldwide. We all know our pivots look different, but there’s a reason behind every design choice; to add strength without adding weight and to increase efficiency without sacrificing durability. Not to boast, but that’s just what we do. And from pivot center to end gun, we’ve created a machine that will perform to exceed your expectations.







## **REINKE DEALERS EXPERIENCE AND KNOW-HOW AT YOUR SERVICE**

Armed with a truckload of experience, expertise and extensive factory training, your Reinke dealer will work with you in everything from custom design, to installation, to making sure your irrigation system performs as expected year after year after year.

Like our pivots, your Reinke dealer is in it for the long haul. They'll settle for nothing less than superior irrigation performance and will always be around for unparalleled service and support.





**Reinke Manufacturing Company, Inc.**

National Sales Office  
1040 Road 5300  
Deshler, Nebraska 68340

*Phone:* (402) 365-7251  
*INT. #:* +1 (402) 365-7251

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

**Manufacturing Facilities:**

- Deshler, Nebraska
- Belleville, Kansas
- Beijing, China

**Warehouse Facilities:**

- Deshler, Nebraska
- Amarillo, Texas
- Burley, Idaho
- Durban, South Africa
- Venado Tuerto, Argentina
- Rostov, Russia
- Brisbane, Australia

**Office Locations:**

- Deshler, Nebraska
- Beijing, China
- San Luis Potosi, Mexico
- Moshav Korazim, Israel
- Rostov, Russia
- Venado Tuerto, Argentina

