Invest in the Best
Since 1954, Valley Irrigation has been providing the most reliable irrigation equipment in the agriculture industry. Valley center pivots and linears provide precise water, chemical and fertilizer applications that improve crop yields, reduce labor costs, reduce runoff and conserve water and energy. The Valley brand is known for having the most durable structures and the most advanced technologies, making it the first choice of growers wishing to increase the value of their land with irrigation equipment.

We have built our reputation by providing the most durable equipment available in the market, and we have the certified test data to prove it. That’s why 50% of center pivots in use today are Valley pivots.

The Leader in Span Design

When it comes to investing in irrigation equipment, structural life is critical. Valley spans are engineered to last for many years without costly repairs. We design and build the strongest, most durable spans in the industry.

Benefits for you:

- Best long-term life and value
- Significant resale premium over other brands
- Engineered with the strength needed to achieve maximum productivity

Accelerated Structural Life Cycle Test Comparison

Relative Span Life Based on Cycle Tests

Valmont Irrigation tests certified by independent consultant Dr. James D. Summers, P.E., 2003.
Valley, the irrigation technology leader, brings you the smartest pivot control available today with the new Valley ICON® smart panels. The Valley ICON series has a solution for every need. Whether you’re buying a new pivot, upgrading your existing control panel or changing over from another brand of pivot, you have the advantage of operating an intuitive, full-color touchscreen interface.
<table>
<thead>
<tr>
<th>Valley ICON Model</th>
<th>Display</th>
<th>Edge-of-Field WiFi</th>
<th>AgSense® ICON Link</th>
<th>Key Features</th>
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<tbody>
<tr>
<td></td>
<td>10-inch Color Touchscreen</td>
<td>Option available through the ICON app</td>
<td>Included</td>
<td>• Intuitive user interface</td>
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<td>• BaseStation3™ compatible*</td>
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<td>• Variable rate irrigation (VRI) capable</td>
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<td>• Cable theft monitoring*</td>
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<td>• Valley Patented Cruise Control™</td>
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<td>VALLEY. ICON**10</td>
<td>ICON10 pictured at left</td>
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<tr>
<td></td>
<td>5-inch Color Touchscreen + Soft-Touch Buttons</td>
<td>N/A</td>
<td>Included</td>
<td>• Intuitive user interface</td>
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<td></td>
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<td>• Soft-touch buttons for feature selection and navigation</td>
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<td>VALLEY. ICON**5</td>
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<td></td>
<td>Full Touchscreen Control with Remote Device</td>
<td>Included**</td>
<td>Included</td>
<td>• Wireless display through tablet or smartphone</td>
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<td></td>
<td></td>
<td>No cell service or internet required</td>
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<td>• ICON app available on the App Store and Google Play</td>
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<td>VALLEY. ICON**1</td>
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<tr>
<td></td>
<td>5-inch Color Touchscreen + Soft-Touch Buttons</td>
<td>N/A</td>
<td>Included</td>
<td>• Compatible with all major pivot brands</td>
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<tr>
<td></td>
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<td></td>
<td>• Uses power and control circuits in the host panel and transfers control to the ICONX</td>
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<td>• Full ICON control functions right at the pivot</td>
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</tbody>
</table>

*Additional hardware or subscription required. **Limitations based on field conditions.
Valley BaseStation3™

Valley BaseStation3 is the most comprehensive, state-of-the-art irrigation management solution available. This innovative technology gives you unprecedented control over your operation.

Benefits for you:

- Choose an Internet-connected installation or stand-alone installation
- Option of no monthly or annual fees
- Access from any computer, laptop, tablet, or smartphone
- Native iOS (iPhone®, iPad®) and Android apps available
- Manages all types of irrigation equipment, including pivots, linears, solid set, subsurface, pumps and gensets
- Enhanced, soil moisture monitoring
- Combines cellular, data radio, and IP communication technologies in one installation
- Ability to customize for your operation

AgSense®

AgSense remote irrigation management products use digital cellular technology to remotely monitor and control irrigation equipment. The benefit of choosing AgSense goes beyond feature-rich products. Through the use of the AgSense App from your mobile device, you can gain access to all of your aggregated data, so you can put the information to work for you. And now, with AgSense ICON Link, the power of AgSense comes built-in with every Valley ICON panel.

For more information, visit agsense.net.
Variable Rate Irrigation

Valley variable rate irrigation (VRI) allows you to customize your water application based on topography information, soil data maps, yield data, and other information that you select. With VRI, you can optimize irrigation on every acre by automatically adjusting water application depths to account for field variability and real-time crop demands, therefore maximizing your crop yields and profit potential.

Benefits to you:

- Compatible with third-party agronomy companies
- Yield improvements up to 15%, along with savings on water and pumping costs
- Built into your control panel, completely integrated with your pivot
- Can be based on yield maps, soil maps, Veris® maps, or user-defined conditions

Trimble Irrigate-IQ VRI (Individual Sprinkler)

Trimble® Irrigate-IQ™ variable rate irrigation gives you control over each individual nozzle for the highest level of accuracy. Each nozzle is controlled independently, and its flow rate can be changed based on the irrigation plan and location.

- Control individual nozzles to apply the right depth in the right spot.
- Work with your trusted advisor to create VRI plans that compensate for variations in soil properties, vegetative health, topography and precipitation history within each field.

Valley VRI Speed Control (VRI-S)

For those who want to minimize costs, but still receive the benefits of applying water more efficiently. With VRI Speed Control, fields can be divided into 180 sectors.

Valley VRI Zone Control (VRI-Z)

For more challenging fields that include differing topography and soil types. With VRI Zone Control, fields can be divided into more than 5,000 management zones.
Gearbox Design Philosophy

You know the gearbox is the heart of your center pivot. If the gearbox isn’t working, the center pivot isn’t working. The Valley philosophy is to provide you with the most durable gearbox in the irrigation industry. That’s why Valley Irrigation is the only center pivot company in the world that manufactures its gearboxes in the USA.

1. **25˚ Tooth Pressure Design**

   The Valley gearbox uses an industry-exclusive 25˚ tooth design. According to the American Gear Manufacturers Association’s worm gear design guide, a 25˚ pressure angle provides 40% more strength at the root than a 14.5˚ pressure angle, which is the design our competitors use. While the 14.5˚ tooth looks stronger, the wider width at the root of a 25˚ tooth actually provides more strength.

2. **High-Strength Ductile Iron Worm Gear**

   The Valley gearbox uses high-strength, ductile iron worm gears instead of steel worm gears. The American Gear Manufacturers Association’s worm gear design guide states that the allowable load for ductile iron worms operating against a cast iron bull gear is 60% higher than a steel worm operating against a cast iron bull gear.

3. **NTN Bearings**

   The Valley gearbox uses only NTN bearings made in the United States, making it the strongest and longest-lasting gearbox available. They are made using ultra-pure steel that is precision ground and surface hardened.

4. **Longer Output Shaft**

   The Valley gearbox has an exclusive, longer output shaft that moves the wheel hub 2 inches away from the output seal. Our offset rims compensate for the longer shaft and actually move the center of the tire closer to the gearbox output bearing, reducing the overhang load on the bearing.

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**Tooth Comparison**

**Ultimate Output Torque Test**

**Accelerated Life Comparison**
Valley X-Tec™

The new Valley X-Tec™ drive delivers the ultimate combination: top-performing speed for quick irrigation cycles and dynamic power to take on even the toughest terrains. The patented alignment technology and robust DC motor keep the pivot moving at a smooth and consistent pace, even over varied terrain.

Valley X-Tec utilizes FastPass™ technology to operate up to two times faster than a standard, high-speed AC center drive motor. The advanced DC motor design provides constant torque throughout a wide speed range, providing growers with unmatched control and additional options to maximize crop yields.

**Powerful Features:**
- Full torque at all speeds
- Patented, consistent precision alignment
- Low inertia rotor
- Electric braking technology
- Robust design provides lasting durability
- Soft starts allow for smooth acceleration of the motor

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**Valley FastPass Technology**
Typical Seven-Tower Machine Comparison

- **Valley X-Tec Drive**: 4 hours total to finish irrigating a field
- **Standard AC Drive**: 8 hours total to finish irrigating a field

Limitations based on field conditions.
Valley truss rod heads are forged from a solid rod. For maximum fatigue strength (i.e. long cyclic life), we take two unique steps in manufacturing our truss rods:

1) The rod diameter is increased under the rod head
2) A larger radius is forged where the rod head meets the rod diameter.

**Benefits for you:**
- Eliminates problems associated with welded assemblies
- Hot-dipped galvanized for maximum, long-term corrosion protection
- Rod diameters larger than competitors for additional strength

Valley truss rod sockets are two-piece, precision-stamped assemblies sized to fit the individual rod diameters and firmly hold the truss rods in the center of the socket. The socket assembly is held together with three bolts to prevent misalignment and ensure the truss rod heads are uniformly loaded.

**Benefits for you:**
- Truss rods remain centered for uniform load
- Uniform load on truss rod heads result in longer machine life
- Keeps your machine standing and operating correctly

Valley truss angle attachment assemblies are precision-welded with significantly more weld area on the pipe to distribute the truss angle loads over a large section of pipe. Other center pivot manufacturers just weld a small angle on to the pipe, which concentrates the load on a small section of the pipe. Our truss angle attachment design is more expensive than that of our competitors, but, by distributing the load over a larger section of pipe, 12-gauge pipe can be used, providing your best cost-value.

**Benefits for you:**
- Significantly reduces the pipe’s stress
- Reduces the load concentration
- Results in longer span life on rough terrain
- Longer center pivot life
- Best cost-value
Valley Tower Box

The Valley tower box is built for a long, trouble-free life. Our competition uses cheaper components, such as a plastic base, that can degrade over time. Our environmental testing ensures our tower boxes will operate reliably in rugged, outdoor environments for many years.

Benefits for you:

- Galvanized steel base provides:
  - Long, trouble-free life
  - Accurate alignment
  - No distorting or cracking over time
  - No degrading over time due to environment
- Stainless steel shaft and nylon bearings for smooth operation and long life
- Steel cam and heavy return spring for safety
- External emergency on/off switch to shut down pivot

Welded Sprinkler Outlet

The strength of your sprinkler outlet is crucial. The sprinkler outlet and pipe connection are subject to stress from wind moving the sprinkler drops, the machine traveling over ridges, and the sprinkler drops being pulled through the crop. Anticipating these stresses, Valley engineered its sprinkler outlet to better withstand the forces encountered in the field.

Benefits for you:

- Standard pipe coupling welded onto the pipe for much stronger design
- No pressure loss due to couplings
- No protrusion into the pipeline restricting flow
Putting the grower first is not just a slogan at Valley but part of our culture. When you purchase a Valley, you are not just buying the best irrigation equipment available, you are buying a dedicated team to support you after the sale.

Fast Service

Servicing All Brands

Since the mid-1950s, more than 50 irrigation equipment manufacturers have come and gone. But it’s no problem if you have an “orphan” machine. Valley dealers are trained to service and install Valley parts on most other pivot brands. Our goal is to keep your equipment moving and doing its job—enabling us to earn your trust and your business, day after day.

Valley Parts Availability

Valley invests in five factory-owned parts distribution centers to support your needs and provide fast, reliable service. These centers, along with your local dealership’s extensive inventory, ensure that you have parts when you need them most.

See your local authorized Valley dealer for complete details.