

Valley[®] Corner Pivots



RELIABLE
DRIVE TRAINS

DURABLE
STRUCTURES

PRECISE
APPLICATIONS

ADVANCED
TECHNOLOGIES

RESPONSIVE
DEALERS

GPS Guidance Now Available



Get the Most Out of Your Fields



Since its 1974 introduction, Valley corner machines have been irrigating square, rectangular and odd-shaped fields...efficiently and economically. The steerable corner arm lets you match the unit to your field's configuration. You can irrigate more of your acres!

Along the way—20 million hours of operation in more than 5,000 different applications—Valley has made continuous improvements, assuring that the Valley corner you buy today is the best on the market. You can order your Valley corner configured to specifically match the needs of your field.

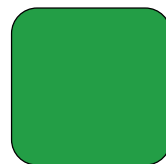


From the manufacturer of the world's first center pivot corner irrigation machine, comes the Valley Precision Corner®.

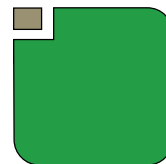
A Valley Precision Corner helps you earn extra income from the land you already have. No matter what crops you raise, the Valley Precision Corner takes those corners and other acres that are now wasted, and puts them into production—for far less than the cost of acquiring more land.

For example, on a square quarter-section, the Valley Precision Corner enables you to irrigate an extra 23 acres (9,3 hectares) that a center pivot alone can't reach. On odd-shaped and irregular-shaped fields, you can add as many as 49 extra acres (19,8 hectares). On rectangular fields, the Valley Precision Corner can swing out to pick up both ends, adding an extra 37 acres (15,0 hectares).

Bringing this extra land under irrigation enables you to increase your gross income. "Do the numbers" for your own operation, and you'll discover the Valley Precision Corner or Valley Corner are investments that pay for themselves in just a few growing seasons. This means added profit for you!



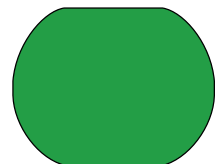
Squares



Buildings in Corner



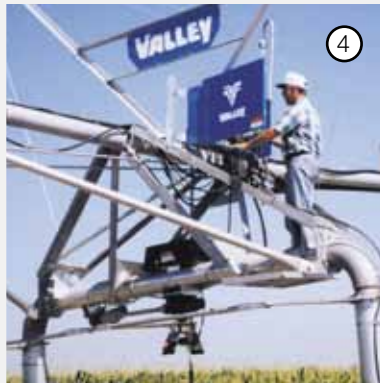
Buildings in Center



Both Ends

Your Needs	How the Valley Precision Corner® Delivers
Reliability	<p>Simplified design eliminates need for complex mechanisms that were previously required to compensate for speed differentials between Last Regular Drive Unit (LRDU) and Swing Drive Unit (SDU). Plastic cams and mechanical switches have been replaced with control software that doesn't wear out.</p>
Uniform water application	<p>Sprinkler sequencing is no longer just monitoring the corner angle and mechanically turning on the sprinklers. Sequencing is now optimized by Compu-Spray™ software that accurately calculates the area being irrigated under the corner arm, based on corner angle, pivot length and corner movement. More sprinkler sequences than any other corner arm improves water application uniformity and delivers better crop yields. Operation of machines without pressure regulators has been enhanced by software that continuously adjusts the speed, based on available pressure.</p>
Uniform chemical application	<p>Crop protection chemicals and fertilizers can now be uniformly applied while using a fixed-rate chemical injection pump. In the "Chemigate" mode, software continuously adjusts the speed, based on the area being irrigated. A rocker switch on the Operator Interface panel allows you to select between "Irrigate" and "Chemigate" operating modes.</p>
Irrigates the whole field <small>(See the Water Utilization Package graph on page 5.)</small>	<p>Longer 205' (62,48 m) span (287' [87,48 m] with overhang) provides greater coverage. The Valley Precision Corner can lead or trail to better fit special-shaped fields. An additional sprinkler package, the "Water Utilization Package," turns on when the corner arm is extending away from the fencerow. This package distributes the end gun water over the corner arm which allows the Valley Precision Corner to extend faster and deliver the additional water required under the corner arm just before the end gun turns on. This package delivers 15% more water to approximately 4 acres (1,6 hectares) of cropland that other sequencing designs typically under water.</p>
Travels over high slopes	<p>The Valley Precision Corner handles the same field slopes as all other span joints. A wider wheelbase gives more stability for rough ground applications. The proven underground guidance provides track-on-track repeatability and reliability, and allows you to irrigate odd-shaped fields and around obstructions.</p>
Electronic diagnostics	<p>Easy-to-use control panels on the Valley Precision Corner indicate the cause of safety shutdowns. Test switches provide a quick check of proper sprinkler operation. The LED screen is easy to read in all light conditions. Rocker switches allow the operator to recover from many safety shutdowns without a service call.</p>
Faster revolution time	<p>16.9 x 24" (60.96 cm) tires allow for faster revolution time. Easily adapts to standard or high-speed operation. High-torque variable-speed drives ensure reliable, high-speed operation even over rolling terrain and deep furrows.</p>

Precision Corner® Swing Arm

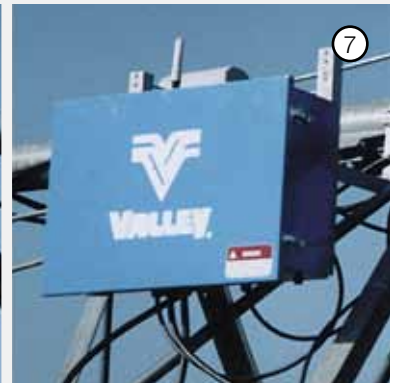
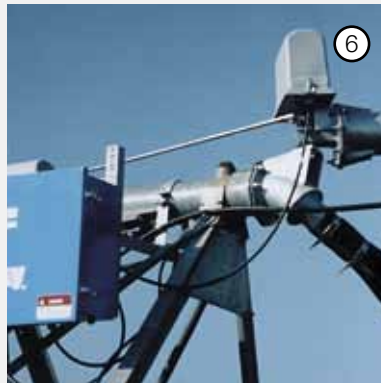


1. **Water transfer connection and hose**—eliminates pressure-robbing 90-degree turns of other designs, minimizing required water pressures.
2. **Low-profile corner model**—available with 287' (87,5 m) or 267' (81,4 m) span.
3. **Patented perpendicular basebeam and wider wheelbase**—increases stability and allows the corner arm to operate in either a “leading” or “trailing” mode to best fit the field.
4. **Operator platform**—Steps on vertical legs and platform on basebeam allow easy access to operator interface panel.
5. **Service/Run rocker switch**—permits quick and easy recovery from a safety shutdown without a service call.
6. **Angle sensor**—measures angle between swing span and pivot to ensure proper water application in corners.
7. **Patented Valley® Corner control panel**—calculates irrigated area under the swing arm (800 times in a quarter-section) and monitors speed and pressure for efficient use of pump gpm (lps). Our patented, reliable, high-speed, motionless joint and variable-speed drives minimize time required to apply chemicals and fertilizers. Available GPS Guidance using the StarFire RTK system.



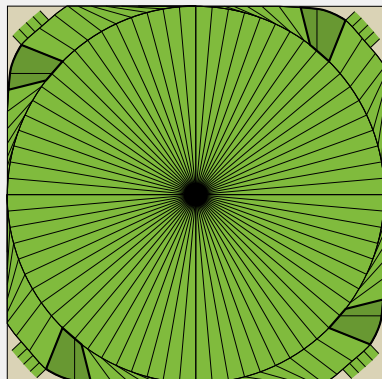
Operator Interface Panel

- **Diagnostics displayed** on LED screen for easier service.
- **Patented Chemigate/Irrigate selection switch.**
In “chemigate” mode, the machine continuously slows down as the corner arm extends, which allows the use of a fixed-rate injection pump to apply crop chemicals and fertilizers uniformly.



Patented Water Utilization Package™ (optional)

Additional solenoids control 22 more sprinklers for maximum water application uniformity in selected applications. Delivers 15% more water to approximately four more acres for improved water uniformity and increased yields on selected fields.



Precision Corner Dual Drive Option

GPS Guidance Control Panel

Choose the Corner that Fits



Valley, heavy duty 3-Wheel Drive option for increased traction.



Valley, Track Drive tracked option for increased floatation.

Product Specifications

Precision Corner

Pipe Diameter		Span Length		Trusses No. of	Approximate Weight (Wet)		Allowable Slope 0-6" Ridges					Crop Clearance	
in.	(mm)	ft.	(meters)		lbs.	(kg)	11 x 24.5	11.2 x 24	14.9 x 24	16.9 x 24	11.2 x 38	ft.	(meters)
6.625	168	204.9	62.45	8	8024	3639	8%	NA	8%	7%	6%	9	2.74
6.625	168	184.8	56.32	7	7433	3371	9%	NA	9%	8%	7%	9	2.74

Valley Corner

Pipe Diameter		Span Length		Trusses No. of	Approximate Weight (Wet)		Allowable Slope 0-6" Ridges					Crop Clearance	
in.	(mm)	ft.	(meters)		lbs.	(kg)	11 x 24.5	11.2 x 24	14.9 x 24	16.9 x 24	11.2 x 38	ft.	(meters)
6.00	152	184.8	56.32	7	7200	3265	10%	10%	10%	9%	7%	8.6	2.62

	Precision Corner				Valley Corner		
	205' Span		185' Span		185' Span		
Pipeline height @ Drive Unit	13 ft.	3.96 m	13 ft.	3.96m	12 ft.	3.7 m	Precision Corner available with 8000 series only Valley Corner available with both 7000* and 8000 series pivots. <small>*7000 series only available in US and Canada</small>
Coupler Spacing	30 in.	.76 m	30 in.	.76 m	102 in.	2.6 m	
Overhang Length	82 ft.	25 m	82 ft.	25 m	86 ft.	26.2 m	
Total Arm Length	287 ft.	87.5 m	267 ft.	81.4 m	271 ft.	82.6 m	
Maximum Extended Reach	273 ft.	83.2 m	254 ft.	77.4 m	258 ft.	78.6 m	
Wheel Base of Drive Unit	160 in.	4.1 m	160 in.	4.1 m	156 in.	4.0 m	
Qty. Standard Sprinklers	29		27		34		
Qty. Optional Sprinklers	22		19		0		
Qty. Sprinkler Sequences	11 or 13		11 or 13		9		

Valley Corner

Corner Arm Connection

- Low-profile flexible joint connects corner arm to the last regular drive unit.
- Rugged design to handle stress.
- Extended cradle to handle deep ridges.
- Long travel intervals with fewer starts for smooth movement.
- Run cycle box encloses factory-set 10-million cycle microswitches to reliably control corner unit movement.

Sprinkler Sequencing

- Each sprinkler's on-off sequencing is controlled for accurate water application.
- Self-flushing filter continuously removes contaminants.
- Dependable, triple-walled hydraulic tubing connects sequencing control with sprinkler control valves.
- Solenoid valves for long life and uniform sprinkler application.

Guidance System

- Forward and reverse guidance antennas provide accurate tracking in both directions.
- An independent antenna monitors guidance signal strength and the unit's path for additional safety.
- Low-voltage monitor and high-voltage suppressors protect guidance components.
- Buried guidance wire protected by stainless steel shield.
- Guidance wire surge protection.
- GPS Guidance.





Dealer Support

Responsive dealer service with factory-trained technicians, is how Valley minimizes equipment downtime. Dealers are equipped with product training, knowledge of irrigation and local agricultural practices. And Valley offers the most comprehensive warranty in the industry.

When versatility in the field is at the forefront for crops requiring extra attention, be sure to contact your local Valley dealer to look at how the Corner can result in a faster return on investment. Being the world leader in mechanized irrigation equipment, you will not find a more durable or reliable pivot in the industry.



Conserving Resources. Improving Life.

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* See your local authorized Valley Dealer for complete details.

Valmont, Irrigation has a policy of continuous product improvement and development. As a result, certain changes in standard equipment, options, price, etc., may have occurred after the publication of this brochure. Some photographs and specifications may not be identical to current production. Your local Valley, dealer is your best source for up-to-date information. Valmont Irrigation reserves the right to change product design and specification at any time without incurring obligations.

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