

# Hydrostatic **POWEROLL®**



The Poweroll is a mechanized sprinkler irrigation system that takes the hard work out of moving sprinkler irrigation pipe, saving time, labor, and money.

**WADE**  **RAIN**  
**IRRIGATION SYSTEMS**

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



# Powerroll Mover Unit

The Wade Rain Powerroll mover unit with Hydrostatic Transmission, combined with the longer dual-rail frame, enables you to pull out of the mud and wet ground with full power at a slower speed, and then adjust to high speed on dry ground. The operator has far better control with the adjustable power range of the Hydrostatic Transmission. It is the only mover unit with equal ground speed for 5 and 7 foot diameter wheels.



## Hydrostatic Transmission Simplifies Irrigation Saves Time and Labor Six Ways!

### 1. Full Range of Operating Speeds

Wade Rain Hydrostatic Transmission gives you smooth speed changes—from full forward through zero to full reverse—all with a single control. Pick your speed from less than one foot per minute to 65' per minute.

### 2. Adequate Power at All Speeds

The hydrostatic transmission applies the amount of torque needed to move the load. Operator can regulate speed and power to fit the load and land contour.

### 3. Smooth, Dependable Power

Have smooth control of the line for easing the wheels out of the mud or to bring sprinklers to the upright position. Gives you better control of your line than ever before.

### 4. Simple to Operate

Wade Rain Powerroll with Hydrostatic Transmission gives you forward, reverse, neutral, fast or slow with a single lever control. No throttle control or adjustments are needed.

### 5. Ruggedly & Compactly Designed

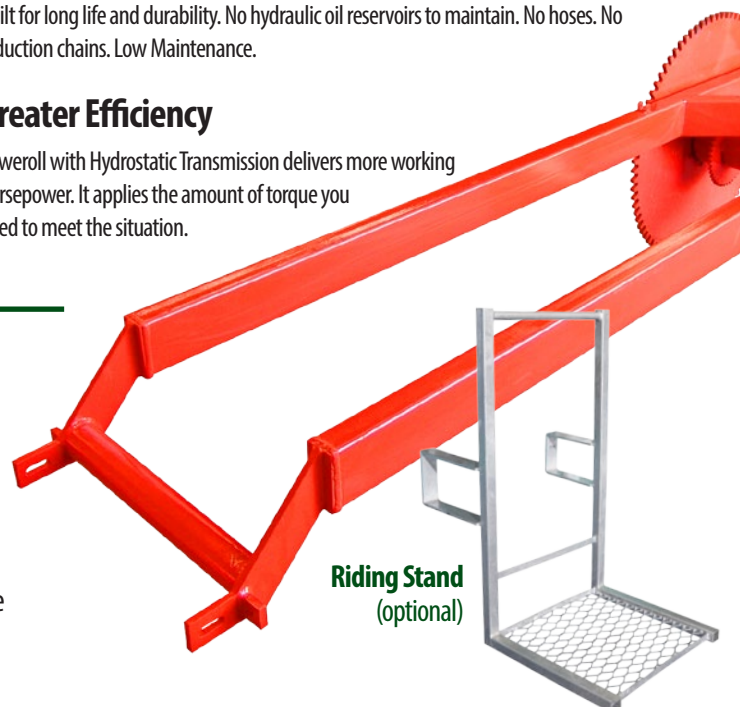
Built for long life and durability. No hydraulic oil reservoirs to maintain. No hoses. No reduction chains. Low Maintenance.

### 6. Greater Efficiency

Powerroll with Hydrostatic Transmission delivers more working horsepower. It applies the amount of torque you need to meet the situation.

## Mover Unit's Longer Dual-Rail Frame Improves Wheel Alignment!

The longer frame (over 14 foot wheel base) gives more power, through increased leverage, to roll the line. Keeps the mover up with the line. The extra long dual-rail frame of Wade Rain's Powerroll mover has two locking bearings for each tail wheel axle to assure easy alignment and better tracking. Reduces crop damage and labor.



Riding Stand  
(optional)

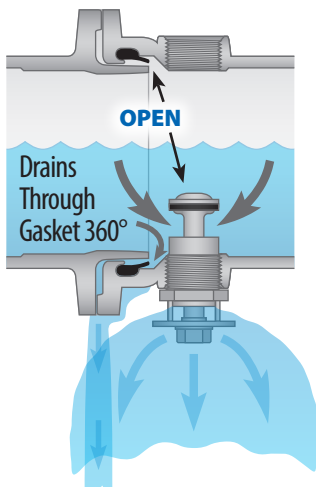


# 360° Double Draining Couplers

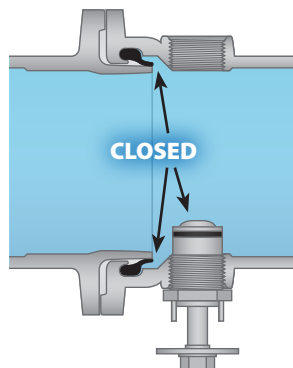
Wade Rain Powerroll comes with double-draining couplers. Couplers drain both from the coupler gasket and from the drain valve. This means your wheel line will drain quickly and completely, so that you can move your wheel line to its next position. A typical wheel line with 4 inch pipe takes 8 1/2 minutes to drain while a 5 inch wheel line takes 13 minutes.

## Wade Patented Self-Draining Valve

**Drains Completely**



**Seals Automatically**



Line Diameter	Line Length	Weight of Water	
		lbs.	kg
4"	400 m	6,635	3,010
5"	400 m	10,485	4,757

**Powerroll lines drain faster for quicker operation**

Automatically self-draining, the couplers seal when water pressure is turned on and drain when water pressure is turned off. The couplers will not leak due to misalignment of the line, and do not rely on a mechanically compressed gasket. A large drain opening provides fast draining and extra clearance for removal of material clogging the line.

Powerroll gives you double draining all the way around so that the line drains through the gasket 360 degrees and in any position quickly and completely. This means your wheel line will still drain fast even if it is misaligned and the drain valves aren't facing the ground.

## Strong Wheels

Strong rims with deep corrugations give greater strength with lighter weight. The construction design helps the wheel resist denting on rocky soil or twisting out of shape when axial loads are applied.

Lightweight Powerroll wheels reduce the weight on the line, help operator move line with ease, and keep the line straighter.

Powerroll wheels are available in three diameter sizes: 57", 64", 76".

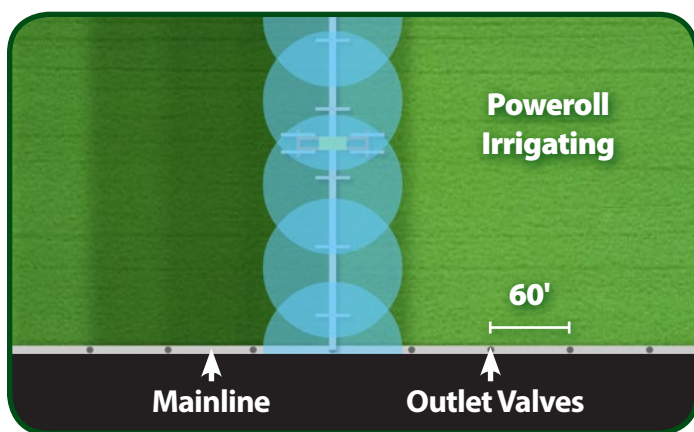
**ONE-INCH  
DEEP RIM  
GROOVES**





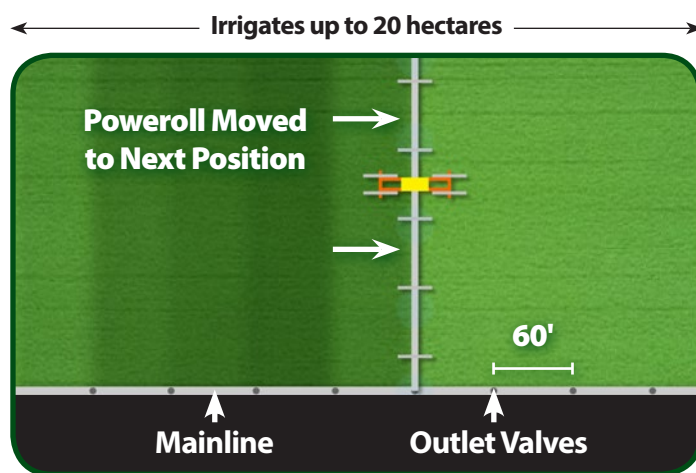


# How It Works



The Powerroll is an aluminum sprinkler line mounted on wheels which irrigates in place. A mover unit powered by a small gasoline engine is located in the center of the line. The sprinkler line is connected to a supply or mainline by a flexible hose.

When an irrigation run is completed (usually 6 to 12 hours), the operator turns the line off, carries the connector hose to the next operating position along the mainline, and then walks to the center of the line and starts the mover engine.



Maintaining control with hydrostatic transmission, the operator rolls the entire line across the field to the next irrigating position, usually 60 feet. Then the operator returns to the mainline, reconnects the hose, and starts the next irrigation run. The whole moving procedure takes about 20 minutes.

When the Powerroll line has covered the entire field, the operator then reverses the line and travels back to the original starting point where the system is ready for the next irrigation cycle.



## Sprinkler Leveler

This attachment automatically brings all sprinklers to the upright, vertical position when the line has been moved to a new setting, saving time and assuring more efficient irrigation.



## Hose Connection

A 20-foot heavy duty high-pressure hose provides a flexible connection to the main line. Its rugged construction assures long life.