



**WATERTRONICS®**



# AGRICULTURAL PUMP STATIONS & CONTROLS



# TRUE EFFICIENCY STARTS WITH ADVANCED WATER MANAGEMENT

Watertronics® fully integrated pumping systems and advanced control technology can be used with virtually any kind of irrigation system, including:

- ◆ Center pivot and lateral move
- ◆ Drip irrigation
- ◆ Wheel roll and hose reel
- ◆ Flood irrigation
- ◆ Process/wastewater

We offer turnkey systems that provide reliable water delivery from source to sprinkler.

Whether you have a large corporate operation or a small family farm, Watertronics can design and build pumping systems that save you water, power and time. By improving efficiency and reliability, you can expect lower utility bills and reduced downtime.

## SAVE WATER

A pump station shouldn't fit every farm, it should fit your farm. Our expert engineers will fine-tune your pump station to deliver exactly what your site and irrigation system demand. Advanced automation packages will provide precise pressure regulation and consistent flow, making over-watering a thing of the past.

## SAVE POWER

Irrigation efficiency begins with precise pump control. Utilizing our advanced Variable Frequency Drive (VFD) technology or our Electronic Butterfly Valve (EBV) controls, your Watertronics pumping system provides precise pressure regulation and flow control throughout each irrigation cycle. Our control systems ensure that your pump minimizes power consumption while maximizing yield.

## SAVE TIME

Your time is money. Imagine not having to go to your pump station for startup or shutdown, and having the ability to receive system status updates in the palm of your hand. All this and more is available when you add WaterVision® 2.0 cloud telemetry to your pump station for irrigation management. Our proprietary remote monitoring software allows you to manage your irrigation system from any web-enabled device.

## WATERVISION 2.0™

ADVANCED CLOUD TELEMETRY

Stay connected and in control of your pump station with WaterVision 2.0. This next generation advanced cloud telemetry gives users the same control they have from the station to monitor and make full system adjustments like set points, safety resets, and alarm resets from any mobile or PC device. Generate water usage reports and diagnostic charts for better water management. View all key station equipment data in one spot on the WaterVision dashboard.



# PUMP SYSTEM SOLUTIONS

## VERTICAL TURBINE (VT) PUMP SYSTEM

Ideal for pumping from reservoirs, rivers and wells, the VT system can meet virtually any pressure and flow requirement regardless of water lift or depth. Engineered for continuous duty in challenging environments, the VT is reliable, rugged, and long-lasting. Pre-packaged and factory tested, your pump station arrives ready for quick installation and startup. With proven reliability and pumping efficiency, the VT offers a cost-effective solution and can be fully customized to meet your needs.



## HORIZONTAL CENTRIFUGAL (HC) PUMP SYSTEM

Ideal for surface water or booster applications, the versatile HC pump systems can be designed in single or multi-pump configurations. HC stations are economical and offer an easy-to-service pump design. Fully factory-tested and ready for installation, you can count on the HC to be user-friendly from delivery to daily use.

## VERTICAL CENTRIFUGAL

High volume, skid mounted Vertical Centrifugal single stage pump station with simple touchscreen operation can be used for flooded suction, boost and lift applications. Pre-packaged and factory tested, your pump station arrives ready for quick installation and start up.



## VFD CONTROL PANEL

With VFD control technology, the VFD pump panel automatically adjusts pump speed to match your irrigation system demand. Installs quickly and operates with a simple touchscreen interface. Panels are fully-factory tested before shipment.



# CHOOSE YOUR PUMP CONTROLS



## VARIABLE FREQUENCY DRIVE

Variable Frequency Drive (VFD) control technology automatically adjusts pump speed to match your irrigation system demand. Compared to fixed-speed pump control, highly-efficient VFD technology delivers precise pressure regulation, extending the life of your system by eliminating line surges and water hammer. Case studies have shown that adding a VFD to a typical pump station can reduce energy costs by up to 25% and often qualify for local utility rebates.

## ELECTRONIC BUTTERFLY VALVE

Watertronics' EBV system can be used in conjunction with a VFD or individually for standalone pump regulation. The EBV eliminates damaging hydraulic surges, reduces wear and tear on your system, and provides a redundant backup to the VFD to protect your valuable investments.



Watch in action at [watertronics.com/resources/videos/](http://watertronics.com/resources/videos/)

*Watertronics certifies the performance of your system by completely "live" testing every pump station, ensuring that your product will perform exactly as promised.*

## RETROFIT CONTROLS

If you want to make your existing pumps work smarter, upgrade with a Watertronics retrofit control panel. Able to control up to 13 pumps plus injection and filtration equipment, our control solutions can optimize your existing pumping system at a fraction of the cost of new equipment.

## FREE ON-SITE ANALYSIS

Consult with a Watertronics pump professional to evaluate your existing system and determine which pump station is right for you. We offer free site visits and analysis upon request. Talk to your dealer today.



# WHY CHOOSE WATERTRONICS

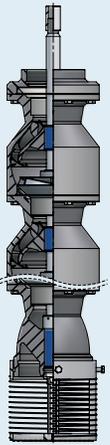
## VIRTUALVISION 4 CONTROLS

Easy-to-use touchscreen operator interface features full color touchscreen display for monitoring alarms, changing pump sequencing, recording/resetting water usage and more.



## FILTER CONTROL\*

Flow based pressure differential flushing reduces filter clogging under all load conditions.

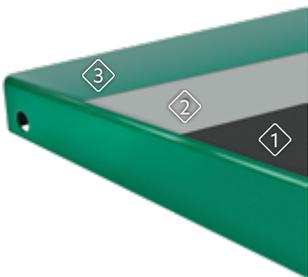


## VERTICAL TURBINE PUMP

Industry leading vertical turbine pumps with ductile iron bowls, 304 stainless steel impellers and glide 400 polymer bearings for superior corrosion resistance, improved dry run times, performance efficiency and longevity in abrasive waters.

## DISCHARGE HEAD

Ductile iron VT discharge head provides increased hydraulic efficiency, superior tensile strength and corrosion resistance over cast iron fabricated heads. Large window design allows complete service access eliminating the need for costly cranes to remove motor and elbow discharge construction provides improved efficiency compared to fabricated T design.



## PAINTING

Three-step epoxy coat paint process for maximum durability:

- 1 Steel grit blasting.
- 2 Two-part epoxy primer.
- 3 Polyurethane top coat is applied and baked to assure adhesion.

## MECHANICAL SEAL

Maintenance free requiring no packing adjustments. Reduces shaft wear and eliminates water spray from pump house floor preventing skid and panel corrosion.



## GROWSMART® MAGNETIC FLOW METER\*

2% accuracy for better usage reporting, no moving parts, not effected by debris, local readout with battery pack and space saving installation size.



UNDERSIDE OF SKID

## SKID CONSTRUCTION

Reinforced 3/8 in. (10mm) formed steel base construction, with rounded seamless edges to resist rust and corrosion. Flat skid surface provides ease of maintenance and reduces water and debris collection.

# DYNAMIC TESTING

Offering the industry's most comprehensive pre-ship dynamic test process to ensure a quick installation and trouble-free start-up. This process fine-tunes each system to reduce set-up time and guarantees your pump station will perform exactly as promised.

- ◆ Tested specifically to site conditions prior to shipment
- ◆ Individual pumps tested
- ◆ Full dynamic flow, operation and 7 point vibration testing
- ◆ Performance data certificate shipped with each station
- ◆ 88,000 gallon (330 kilolitre) factory test pit
- ◆ Test capacity up to 20,000 GPM (4500 m<sup>3</sup>/h)
- ◆ 60 and 50 Hertz testing



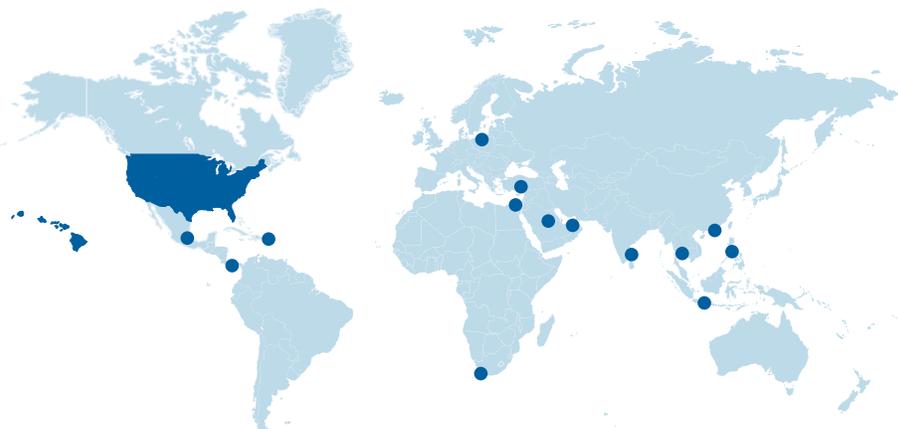
# SUPERIOR SERVICE

Through our Pump Service Network® (PSN), Watertronics offers the largest service team in the industry to support pump stations remotely from our factory as well as in the field.

- ◆ Factory-based control lab with remote access capability to any Watertronics station for troubleshooting
- ◆ Internal PSN technical representatives available 24/7
- ◆ 200+ certified independent field technicians nationwide
- ◆ Technical service for installation, start-up and user training
- ◆ Preventative maintenance programs and service repairs
- ◆ Aftermarket part sales and retrofits for all brands of pump station



For sales and service information visit [watertronics.com](http://watertronics.com)



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



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