



Gillison's Variety Fabrication, Inc.

Manufacturers of quality farm equipment since 1977.

GVF 10,000 SONIC SPRAY

Economical

Save time and money.

Eco-friendly

Use at least 25% less spray material.

The GVF Sonic Spray will save you money by cutting down on the amount of spray material required simply by turning off the application of spray when no tree is present. How does it work? The Tree Detection System on the GVF Sonic Spray uses 6 high speed, short interval, ultrasonic sensors to locate trees. Once the tree(s) is located a signal is sent to the CAN based micro controller. That signal contains information from the ultrasonics and other inputs such as ground speed and operator inputs. The control then processes the information concerning the tree and turns on and off the spray valves at exactly the right time. Speed is corrected in real time to ensure accurate spray application to the tree. This entire process is completed in just a few milliseconds. Speaking of time, Sonic Spray can save you some of that too. Sonic Spray greatly decreases the amount of spray material used, which means you fill up less and travel longer.

The Operator Interface

The Sonic Spray features a very easy to learn, user friendly, operator interface. Operation of the Sonic Spray is simple to comprehend after the first use. This eliminates the need for constant relearning or retraining. The interface is CAN linked to the control to eliminate large cables in and out of the tractor cab. All settings can be adjusted on the go. It shows status of sensors, valves, ground speed and diagnostics all from the display.



Easy to use.

Easy on the environment.

Easy on the bank account.

Easy on the mind - it's reliable!

About our CAN based microcontroller:

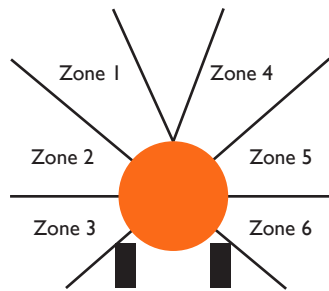
The control is a CAN based microcontroller that is built to endure hardy applications such as the elements faced while spraying. It features an IP67 rating and was tested for all of the following: vibration, shock, free fall, temperature/humidity, temperature change, high pressure-washing, salt mist, cold test, dry heat and chemical resistance.



Tree Detection System

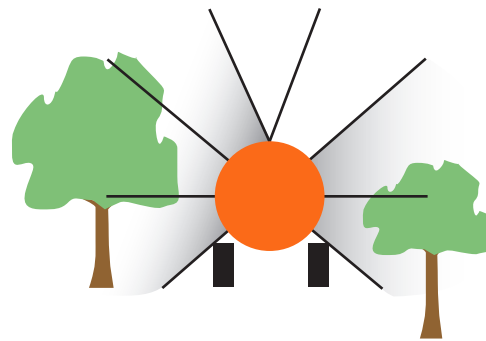
With Sonic Spray you can be assured that all trees will receive a proper application of spray regardless of plant spacing, foliage or growth size, all while being efficient.

About the 6 Zones



Rear view of Sonic Spray's 6 zones.

Sonic Spray's Tree Detection System has 6 zones, one for each of the ultrasonic high speed sensors.



Rear view. Zones only turn on when a tree is detected by a sensor.

Once a tree or part of one is detected by a zone sensor, a signal is sent to turn on the spray in that respective zone. If no tree or part of a tree is sensed, no spray is turned on.

Side View of Sonic Spray



Sonic Spray allows the spray to turn on only when a tree is present.



Sonic Spray shuts off when no tree is present in either row.



Sonic Spray works in any type of orchard growth whether it is young or mature, and even if the tree spacings are inconsistent.