

New for 2005!

We now offer a complete line of Raven Industries Flow Control and Precision Guidance products.

What does this mean to you?

- More options!
- An upgrade path to precision application
- Over 30 years of experience in spray and NH3 installation and application
- Hands-on experience
- Local support and parts on the shelf
- In-field service available
- Free phone support for our products

Trade-In Policy

As many of you know, if your Hiniker products fail and we can't repair them, we have the products on the shelf to trade to keep you running. Our Raven policy is the same. Our commitment is to have the products to keep you going when time is tight.

Fungicide Application Notes

As with you, we've spent a lot of time this Winter thinking and learning about rust and the proper way to apply fungicides. Here are few items that we will be emphasizing with our customers this Spring:

- Check your pump with water this Spring to make sure that you will be able to get 40-60 psi at 6-10 mph applying 15-20 gpa.
- Choose your nozzles by droplet size (< 220 Microns or "Medium") at the desired pressure. We are focusing on 40-50 psi.
- Speed is a double-edged sword. If rust appears, you'll need to apply quickly. However, apply too fast and the spray may not sufficiently penetrate the canopy. We are aiming for 8 mph, but the application window may dictate otherwise. Therefore, know your nozzles' operational characteristics.

- Don't cut rates! As a recent Indiana Prairie Farmer article proclaimed, "Gallonage is king".
- Use of a Y-body or a double nozzle cap is suggested to increase canopy penetration.
- It never hurts to be prepared. It is an investment that will payoff.

Did you know?

You probably know that we have worked with Hiniker and Chem-Farm for over 20 years, but we also represent the following companies and their products. Let us help you find the solutions you need.

- | | |
|-----------------------|-------------|
| • Century Sprayers | • Hypro |
| • Demco | • Tee-Jet |
| • SI Distributing | • Banjo |
| • Great Plains | • Redball |
| • Planting & Tillage | • Ace pumps |
| • Parts | |
| • Application Systems | |

Don't Forget

Please fill out the included customer survey. We do value your feedback.



Got Nozzles?

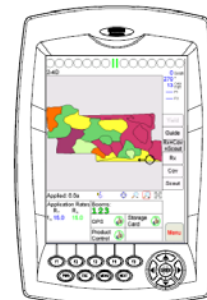
Whether you already have nozzles or are thinking about investing in a set in case of rust, we can help. We've got recommendations ready whether you're on 15", 20" or 30" spacing. We have product in and more on the way.

Do you have an older set of nozzles and wonder if they're still in shape?

We can help there too! With our nozzle flow bench, we'll check the flow rate and spray pattern of your nozzles and let you know which ones need to be replaced. Why buy a new set if you already have the solution on the shelf?

Valve Warning

If you are still using the Spraying Systems 144A coil valves, it may be time to update. The coils tend to overheat and allow the valve to partially close. The controller will compensate by pushing more product out of the other boom sections, but this may not be noticeable from the cab.



SCS 450



RGL 600 SMARTBAR

Invicta 115



Invicta 210/310



Kelley Engineering LLC

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Description:

The GVS is a GPS based velocity sensor that produces true ground speed pulses to equipment designed to interface with radar ground speed and wheel speed sensors. The GVS can be quickly transferred from vehicle to vehicle, provides high accuracy, and is easy to install and use. Simply attach the connector to your monitor/control equipment, perform the same calibration you would use for other pulse sensors and you're ready to go. However, an interface is still required for use with a Hiniker monitor.

No subscription required!

◀◀ **Repairable!** ▶▶

Physical Specifications

- Enclosure UV stable plastic, fully sealed
- Connector as specified
- Pin 1 Ground, Pin 2 Signal, Pin 3 & 4 Power
- Standard Cable length 10 feet
- Power 4.8 to 16 Volts, 0.1Amps max.
- Backup Battery CR2032 Lithium Coin
- Physical Size 4.50" x 2.43"
- Operating Temp. -40°F to +149°F
- Storage Temp. -40°F to +176°F
- Humidity 100% Condensing

Standard Features

- Completely self-contained (GPS receiver, antenna, and velocity to pulses converter)
 - 16 Channel GPS receiver
 - 58.94 pulses / MPH, other rates available
 - 0.1MPH accuracy from 0.5 to 50 MPH
 - Simple magnetic mount (other mounts available)
 - Different connectors available for various applications
- (Can be used with all equipment that is compatible with radar or pulse type speed sensors)

Performance Specifications

- Velocity Accuracy 0.1MPH
- GPS Update Rate 4 Hz (4 updates/second)
- Backup Battery Life > 3 years

Acquisition Rate

- Cold Start < 60 seconds
- Warm Start < 45 seconds
- Hot Start < 20 seconds

\$385 (One year warranty)



Description:

The GVS-18 is a GPS antenna that utilizes GPS satellites to simulate a radar speed input. The GVS-18 can be easily moved from tractor to combine to tractor. The sensor operates at 57.7 HZ just like the Phillips radar sensor. The receiver is 2.4 inches in diameter, weighs just an ounce and is sealed from the environment. Simply connect it to the monitor/control equipment and perform the same set-up calibration that you would with a radar or wheel sensor; however, an interface is still required for use with a Hiniker monitor.

Features

- Standard Magnetic Mount
- Suction Panel Mounts (Optional)
- Enclosed in UV stable plastic
- Operating Temp. -40°F to +149°F
- 1/10 mph accuracy from .3 to 65 mph
- Radar signal 57.7 Hz works with planter and spray monitors
- Interface required for Hiniker monitors
- Different connectors available for various applications

\$275

(One year warranty)

No subscription required!

▶▶ **Not Repairable** ◀◀

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