

Kelley Engineering



Plus, ... Nozzles, Pump Repair, Custom Cables, and Custom Solutions!

At Kelley Engineering we have over 60 years of combined experience in spray, NH3, and guidance technologies. This enables us to provide our customers with the solutions they want and superior support AFTER the sale. If you're not already a customer or just haven't been by in awhile, give us a call or look us up on the web and find out about the new product lines that we have added in the last few years (Ag Leader®, Trimble®, Raven®, Outback®, Nichols NH3 knives) and see how we might serve you.



NH3 Special ! 10% off the price of a system upgrade or complete system purchase! Stop by or call for details

What's New . . .

Can I make my existing Hiniker system work with a John Deere Rate Controller or an Ag Leader In-Sight?

Absolutely, Yes! Stop by the booth or Call for details.

I rent my NH3 bar from the fertilizer dealer, but I would like to use a JD Rate Controller or an Ag Leader InSight. Can I do this and make it easy for both of us?

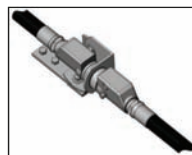
Yes. We have solutions that allow you to back-up to any of their bars (Hiniker or Raven systems) and get to the field quick. Benefits of this approach are that the dealer does not have a "dedicated" bar and, if needed, you can quickly and easily switch to another bar. Call for details.

Can I use swath control on my NH3 bar or add electric shut-offs to my NH3 bar?

Yes. Whether you have a John Deere GS2 or any other type of controller, we have multiple solutions for section shut-off. They vary based upon your controller and whether or not you want it to be automatic.



Equa-Flow Manifold "Sweet 16" by Squibb Taylor
NH3 rate variation across the applicator has long been a concern. In testing at Iowa State University, this manifold performed just as well as the Impellicone manifold, but it costs less than 1/2 price and it has no moving parts to wear out. If you are variable rate applying NH3, the Impellicone might be the better choice in that situation, but it depends upon the range of the application rates. We have replaced the factory 6" nipple into the manifold with this 30" formed nipple to eliminate the need to support your feed hose or replace it for installation.



Flo-Max 1-1/4" Breakaway by Squibb Taylor
Flo-Max couplers are designed to safely disconnect the nurse tank hose from any tool bar in the event of a pull-away. "Replacement After 3 Years" is not a requirement for this coupler. For maximum flow with virtually no pressure drop, the Flo-Max design features "swing style" check valves that provide a "wide open through bore" in its operating position. It comes only in 1 1/4" NPT size for flow hungry applications. Ideal for cold weather applications.

<h3>EZ-Guide 500</h3> <p>Go Beyond Guidance</p>  <p>Ag Leader Technology</p> <p>Kelley Engineering</p> <p>www.agleader.com</p> <ul style="list-style-type: none"> View coverage maps in real time so you can easily see covered area and perform fieldwork more accurately. Dual frequency receiver can be used for almost any field operation - planting, application, harvest and tillage. Provides on-screen map of guidance patterns - with support for 6 common patterns. Compatible with EZ-Steer assisted steering system. Compatible with EZ-Boom application control 	<h3>The Complete Precision Solution</h3>  <p>INSIGHT™</p> <ul style="list-style-type: none"> SeedCommand helps you eliminate seed waste and reduce seed cost by turning planter sections on/off based on maps and already planted areas. Variety/Hybrid Mapping allows you to generate color maps while planting so you can see the location of each variety or hybrid. DirectCommand gives you variable rate control of liquid and granular products. Works with sprayers, spreaders and strip-till carts. Yield Monitoring allows you to see yield maps over as-planted maps in real time. <p>Ag Leader Technology</p> <p>Kelley Engineering</p> <p>www.agleader.com</p>
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Ag Leader Solution Examples

- Customer was told by a dealer that he had to buy a whole Raven NH3 system to replace his Hiniker system to use the InSight. We assured him that this was not the case and with the money that he saved, he added section shut-offs and pressure sensors.
- Customer purchased used SPX sprayer - Wanted to use an InSight with DirectCommand and Autoswathing. Dealer told him that one of his fence row nozzles would no longer work. We modified the installation to give him Autoswath on all 7 sections and correct mapping of the fence row nozzles.
- Customer wanted to still be able to use his Raven 660 controller in his spreader if his InSight was being used elsewhere or had a malfunction. Instead of using the factory harness, we made short cables to go from his Ag Leader CAN module to his Raven connection in the cab. To switch, all he has to do is unhook our cable at that connection and hook-up his Raven console cable. One connection - In the cab - Simple.

Trailer Sprayers

- ✓ New options available from multiple manufacturers
- ✓ Used trailers with stainless steel tanks in stock
- ✓ We can assemble, plumb, and test your sprayer prior to delivery.
- ✓ Nozzles in stock in quantities to retro-fit a boom
- ✓ Retro-fitting an older trailer a cost effective option

60 ft Hydraulic X-Fold Booms from Century

Great for retro-fitting an existing trailer sprayer or one of the used trailers we have in stock. Units in stock!

2008 Century Mid-Mount Sprayer

Demo'd Summer of 2008

80 ft, 15 in spacing, 8 sections, 1300 gallon poly tank, hydraulic pump, triple nozzle bodies & more!

Outfitted with an AgLeader EZ-Boom for automatic section shut-off and product control (EZ-Guide 500 or Plus required). We can outfit the system with a different controller if needed. Comes with a rinse tank and a clean water tank.

Save over **30%** off of 2009 List!

We can design an NH3 system to fit your needs. Whether it is a 6 knife or a 25 knife, our systems are designed to give you maximum performance.

Hiniker 8605 NH3 Twin Manifold System

(Single Manifold System Shown - Twin Manifold Systems do not wrap over the heat exchanger)



- Hiniker 8605 controller - GPS compatible
- Heat exchanger with orifices installed. **New 8175 (not shown) available now.**
- Flow meter, stainless steel + cables
- Servo with stepper motor + cables
- Run/Hold proximity sensor on 20' cable + 10' cable for cab
- Battery cable for 8605 controller
- Radar interface¹
- Hydraulic shut-off valve
- 16 port Equa-Flow manifold (Qty: 2)
- Mole liquid/vapor knife (Qty: 2)
- 1-1/4" bolt-on hose clamps (Qty: 2)
- 6' of 1-1/4" NH3 hose
- 1-1/4" filter
- 1-1/4" Flow-Max breakaway (Not shown)

- Not shown, but included with the complete system are the hydraulic hoses and fittings for the shut-off valve.

¹ Not needed with 8614 GVS or wheel sensor
Our systems come completely assembled and ready to mount to your ammonia bar. We can provide you with everything from the tank to the knife and we stock all of the items that we use in our systems. We have a component swap program available on most items and parts on-hand to repair flow meters, servos, heat exchangers, cables, etc. On-site installation is also available.

Call for pricing

Kelley Engineering LLC

3367 West 1150 South • Brookston, IN 47923 • (765) 563-3426 • www.kelleyeng.com