

RAVEN

Simply improving your position.SM

OmniRow™

Key OmniRow™ System Features & Benefits

All for one and one for all. The OmniRow advanced planter control system is three fully integrated systems in one: The OmniRow controller and motor-clutch system, the Envizio Pro II field computer and control node, and optional Slingshot RTK/Online Service. All specially designed to work as one for unrivaled population control, efficiency and yields.

Variable-rate seeding (prescription-based or manual) for maximum yields and savings.

Automatic planter/population control by row or section offers greater savings and convenience.

Real-time seed singulation by row immediately identifies skips and doubles—and helps eliminate problems.

Revolutionary single-unit motor-clutch design delivers greater efficiency, durability and performance.

Hydraulically driven motor-clutch assures greater precision and reliability.

Documentation and mapping capabilities enable you to evaluate seed hybrid/variety selection and pest management and fertilization practices to get the very most out of your fields.

Slingshot-ready for wireless RTK corrections with sub-inch accuracy, data transfer, remote support capabilities, high-speed Internet access—and more.

Three Equipment Levels to Match Your Needs

No two operations or situations are the same. So we designed the OmniRow advanced planter control system to fit your needs, not ours. You'll appreciate having three equipment levels to choose from in case you want to use your existing factory installed or non-Raven components, or if you want to control by individual rows rather than by sections. With OmniRow, you decide. We deliver.

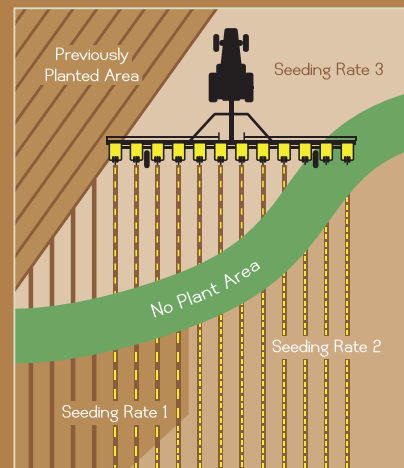
Level One: Planter monitoring and section control for customers using factory installed or non-Raven (after-market) clutches. You can also upgrade your system to manual or prescription-based population-rate control using factory installed drive motors.

Level Two: Planter monitoring, OmniRow motor-clutch, automatic on/off section control, and variable rate seeding by section with a prescription map or manual control.

Level Three: Planter monitoring, OmniRow motor-clutch, automatic on/off control by individual row, and variable rate seeding by individual row with a prescription map or manual control.

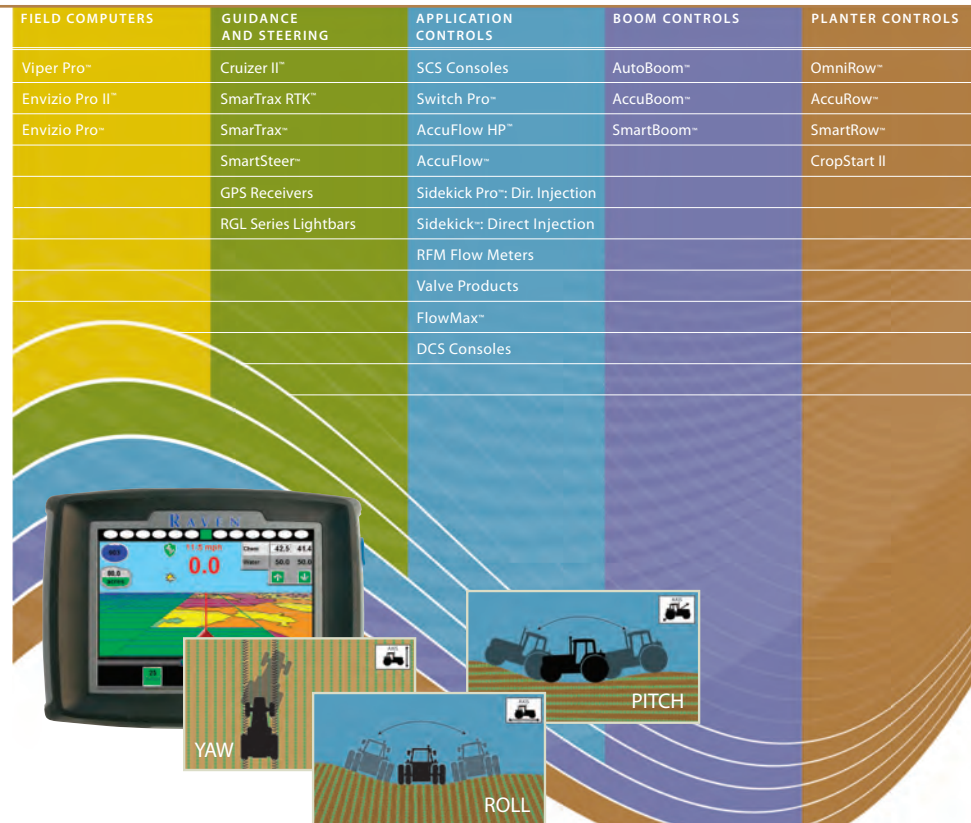
by individual row with a prescription map or manual control.

With Raven's new **SmartYield™ yield monitoring system**, you don't have to take our word for it. Come harvest time, you'll know.



Every seed has its proper place. The OmniRow advanced planter control system makes sure it gets there. That means optimum seed spacing with no skips or doubles, greater efficiency and maximum yields. OmniRow's GPS-guided variable-rate seeding and automatic on/off population control by row or section also lets you adjust for changing soil conditions while avoiding no-plant areas and cross planting with ease.

It takes a system:
Superior. Seamless. Scalable.



SmartTrax RTK™: The next step.

SmartTrax RTK assisted steering lets you redefine the limits in any field with faster operating speeds, best-in-class line acquisition and easier, more relaxed driving. With SmartTrax RTK you can also get more out of your automatic, hydraulically controlled GPS-guided system with 3D terrain compensation and sub-inch accuracy for the ultimate in precision and repeatability. Perfect for strip tilling and advanced planter control systems. Hands down!

FIELD COMPUTERS GUIDANCE & STEERING APPLICATION CONTROLS BOOM CONTROLS PLANTER CONTROLS

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Raven: Simply improving your position.SM

Adding Raven to your operation brings an unequalled brand of precision agriculture innovation and performance to your farm.

Imaginative products that are relevant and reliable. A thoughtful approach to solving problems unique to agriculture. Seamlessly integrated systems that simply work — simply.

An incredible depth of human resources: On-the-ground service from Raven Precision Ag Specialists; our customer-oriented product development and support staff; and your local Raven dealer or distributor.

Raven offers a powerful and profitable product portfolio — targeted precisely on what matters most: Reducing input costs. Increasing yields. Saving time and labor. Making better decisions. Enhancing environmental stewardship. Achieving your financial objectives.

It's all about improving your position. Pinpointing exactly where you are in your field. Applying best management practices to grow more with less. Helping you meet challenge, cope with change and capitalize on opportunity. Strengthening your balance sheet.

If you want to farm better, smarter and more profitably, discover Raven. Because improving your position is our highest priority.

OmniRow™ Advanced Planter Control System



Fully integrated system delivers unrivaled efficiency, yields and flexibility.

OmniRow™



For maximum yields and efficiency, Raven's groundbreaking new OmniRow advanced planter control system takes you where others can only dream of going. Its fully integrated system design, with RTK sub-inch accuracy and patent-pending planter control technology, gives you the power to get more out of every acre, every bag of seed, and every minute you're in the field.

Perfect execution. Knowing what to do is one thing. Being able to do it is another. OmniRow does both—working in perfect sync with Raven's powerful new Envizio Pro II™ field computer and optional Slingshot™ RTK/Online service to deliver the ultimate planting experience. And come harvest time, it shows with higher yields and faster combine speeds.

Population control by row or section. With OmniRow, you call the shots. Variable-rate seeding, automatic on/off planter control and real-time seed monitoring can all be managed by individual rows or sections—you decide. Because OmniRow has all the tools you need to avoid costly skips, doubles and overplants—and maximize yields.

Keeping you in the zone. OmniRow's real-time seed monitoring and singulation reports make it simple for you to find and maintain optimum tractor speed for maximum yields and efficiency. You'll be amazed at the difference—and will know immediately when something's amiss so you can avoid costly mistakes.

Adaptable. Improve your existing system. If you already have a planter control system, OmniRow can make it better by using existing factory-installed or after-market components. With OmniRow, you don't have to scrap everything and start over. That's important, so we offer three levels of readiness to meet your equipment needs. Available today for most popular models—and the list is growing.

Simply improving your position from the ground up with our all-new advanced planter control technology.

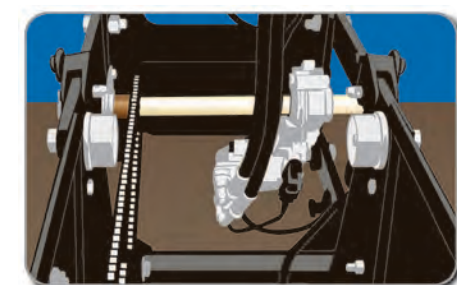
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OmniRow™ Motor-Clutch (Patent Pending): Sewing Your Seeds of Success



With the OmniRow motor-clutch, we didn't just build a better mousetrap. We caught the mouse.

A true industry first. OmniRow's uniquely integrated motor-clutch design opens the door to a whole new world of possibilities—as a single integrated unit, not two. Each OmniRow motor-clutch handles both on/off and population control functions.

One-of-a-kind capability. Unlike other systems on the market, with OmniRow

you don't need a clutch on every row for section control. You simply pick the planter configuration you want (by row or by section) and OmniRow delivers. No wasted energy or components. It's that simple.

Other advantages. Fewer components and moving parts assure greater reliability and efficiency—and uninterrupted planting. No air leaks and no voltage restrictions.

Key Features and Benefits

- Advanced Control Technology with revolutionary single-unit design that integrates planter clutch and drive functions for unrivaled efficiency, reliability and performance. *Patent pending.*

- Hydraulically driven for greater precision and reliability with industry-leading response times for locking onto targeted seeding rates.

- Intelligent system design allows you to install a single unit for each planter row for maximum control or by section, with one motor-clutch driving multiple rows.

- Integrated motor speed sensor assures proper function for non-stop precision.



Convenient hand-held wireless remote lets you turn each motor-clutch on/off while you're standing right there for simplified system calibration, startups and troubleshooting.

Envizio Pro II™ Field Computer: Providing Complete System Control



The Envizio Pro II multi-function field computer is the driving force for the new OmniRow advanced planter control system—and works seamlessly with the Slingshot RTK/Online Service for greater efficiency and performance. From your first pass to your last, Envizio Pro II is the perfect interface and monitor for tying your different system functions together—and rewarding you with greater efficiency, performance and savings.

Total control. No gaps. Seamless operation. Envizio Pro II is equipped

with more power to control, simplify and improve virtually every phase of your farming operation. From integrated GPS technology, advanced data mapping and record keeping to product control, boom management, assisted steering and, of course, planter controls.

Doing more with less. With the latest in advanced computer software and wireless RTK technology, Envizio Pro II brings a new level of accuracy and control to virtually every production area. That means greater savings in farm inputs with more efficiency and productivity from planting to harvest.

Designed for growers. Scalable. Envizio Pro II is intelligently designed for the grower market with the extra power, functionality and simplicity to

accommodate your changing needs—and grow your capabilities when the time is right. Compatible with commonly used industry software and equipment to make your job even easier.

Key Planter-Related Features and Benefits

- Total planter control and seed monitoring by row or section for maximum yields and savings.
- Variable rate seeding (prescription-based or manual) for greater efficiency and yields in every field and for every soil profile.
- Real-time seed singulation reporting by row to identify problems and avoid costly skips and doubles.
- Automatic GPS-guided on/off control by row or section for faster, more efficient planting for point

rows and no-plant areas—and for eliminating cross planting.

- Simultaneous seed monitoring and data logging for multiple seed varieties. Replant any or all—right down to a single row.
- As-applied population map reports for improved records and better management decisions.
- Integrated dual-frequency GPS receiver, upgradeable to RTK accuracy.
- Slingshot-ready for wireless data transfer, remote support capabilities, high-speed Internet access—and more!
- Simple to operate and affordable with easy-to-use computer navigation and logical programming.
- Brilliant 6.5" color touch-screen display for easy operation and clear viewing day or night.

Optional Slingshot™ RTK/Online Service: Advancing Your Idea of Perfection



Slingshot™ RTK/Online Service is the ultimate team player—and has already begun to revolutionize precision farming by enabling other precision ag equipment to do what it does, only better.

Bottom line: With the OmniRow advanced planter control system, improved productivity, greater efficiency, less waste, lower costs and better information and management decisions are the ultimate result.

Break away speed, power and precision. Slingshot delivers unrivaled connectivity through mobile phone networks for access to a groundbreaking system of RTK correction signals, online services, sophisticated data

management capabilities, precision ag equipment—and instant in-field support and service.

Uninterrupted RTK sub-inch accuracy. Repeatable RTK sub-inch accuracy from a single base station keeps your planter on target with no line-of-sight limitations. Trees, structures, hills and other obstructions instantly become irrelevant for uninterrupted operation, more precise planting and greater certainty.

Key Planter-Related Features and Benefits

- Wireless RTK correction signals via cellular networks for universal access to sub-inch accuracy.
- ZERO line-of-site RTK signal limitations provide uninterrupted operation, convenience and repeatability.
- Real-time communications and data sharing with any computer anywhere in the world means better data, better decisions and increased productivity in the field.

- Near-instant data transfer from the field to secure online accounts.
- Remote capabilities for changing equipment settings and field profiles from distant locations—and tracking other equipment in the field.
- Remote in-cab support/service via high-speed Internet puts you in touch with dealer expertise to slash downtime and operator error.

